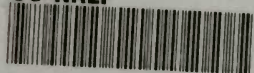
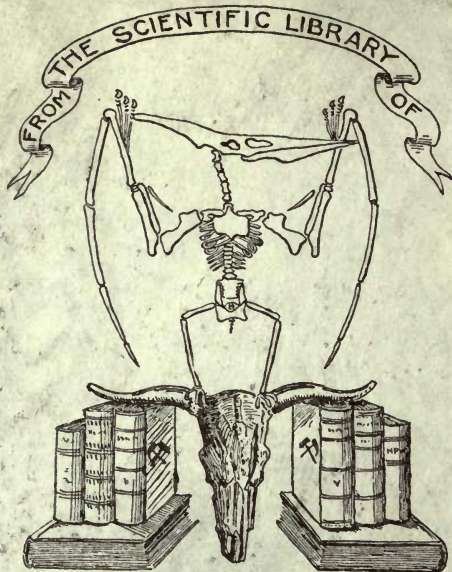


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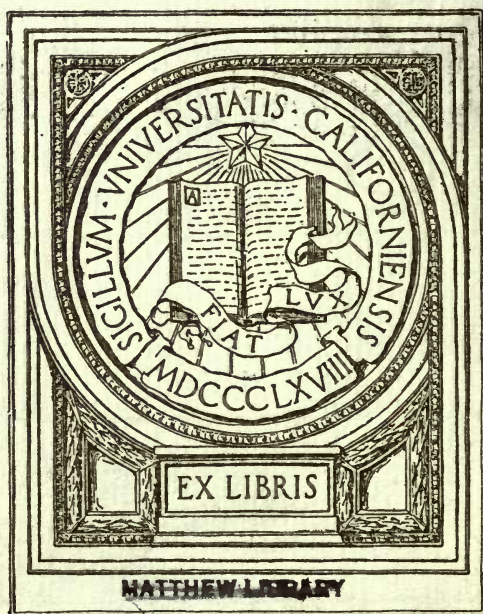


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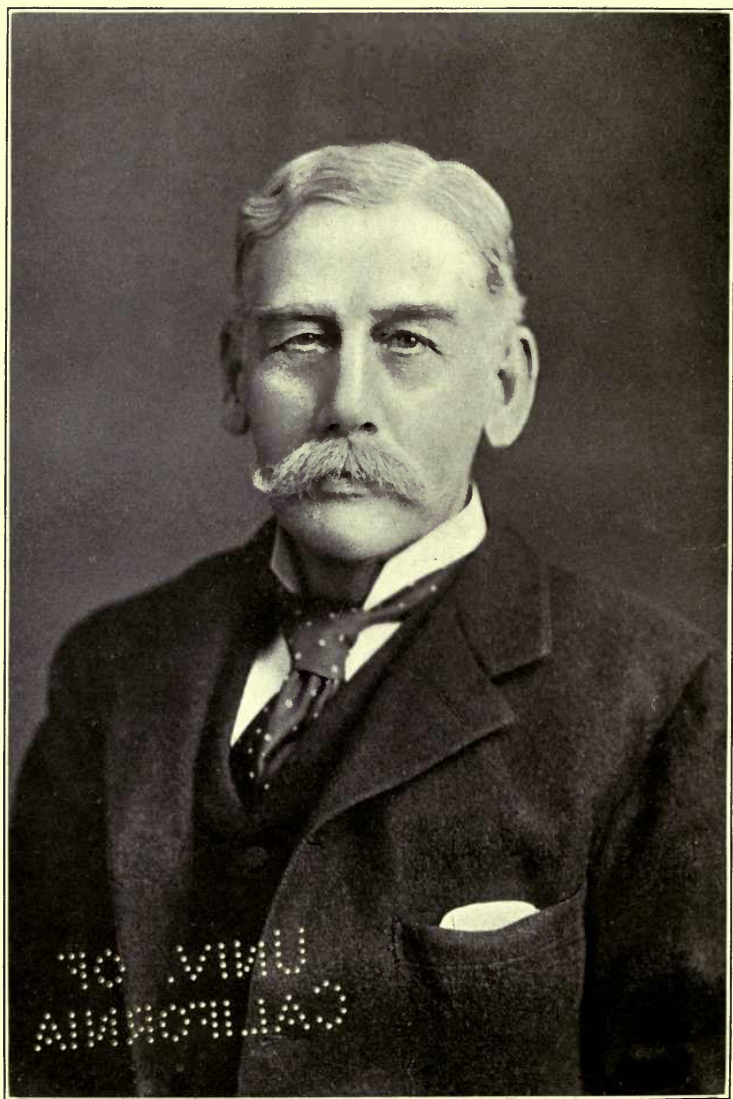


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RICHARD LYDEKKER, F.R.S.

CATALOGUE
OF THE
UNGULATE MAMMALS
IN THE
BRITISH MUSEUM (NATURAL HISTORY).

VOL. V.

PERISSODACTYLA
(HORSES, TAPIRS, RHINOCEROSSES),

HYRACOIDEA
(HYRAXES),

PROBOSCIDEA
(ELEPHANTS).

WITH ADDENDA TO THE EARLIER VOLUMES.

BY THE LATE RICHARD LYDEKKER, F.R.S.

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PREFACE

THE hope was expressed, in the Preface to the previous Volume, that it might be possible to issue a fifth, or concluding Volume, without undue delay. That hope has been realised, as the result of finding the materials for the completion of the work among the papers of the late Mr. Richard Lydekker.

The volume now published is practically as the author left it, and the only alterations that have been made are verbal ones. Even the illustrations are those which he had himself selected.

It will be obvious, however, that this volume should not be regarded as a finished production. The earlier part is drawn up on the general lines of the preceding volumes, and contains lists of the specimens in the collection. These do not appear in the second half of the volume, which consists mainly of a list of species and subspecies, with synonymy and indications of the typical localities. The manuscript was, indeed, in the condition of a preliminary draft, and readers should bear in mind that it has not had the advantage of being amplified and revised by the author.

On the other hand, it has not been thought advisable to make any attempt to complete the volume on the full original plan, partly on account of the difficulty of finding anyone competent to do so, and partly because the mixed responsibility for the work which would be thereby introduced would not be for the benefit of science.

The thanks of the Trustees are due to Messrs. George Allen & Unwin, Ltd., for permission to use certain copyright figures published in Mr. Lydekker's work, *The Horse and its Relatives*; to Lord Rothschild, F.R.S., for the use of figures from the *Novitates Zoologicae*; and to the Zoological Society

of London, the United States National Museum, and Major Stanley S. Flower for other figures, as indicated in the respective legends. Their thanks are also due to Dr. J. Büttikofer and to Mr. F. A. O. Pym for photographs which have served as the originals of other figures, and to the Duchess of Bedford and to Mr. R. I. Pocock, F.R.S., for information about certain specimens.

SIDNEY F. HARMER,
Keeper of Zoology.

BRITISH MUSEUM (NATURAL HISTORY),
LONDON, S.W.
January 26th, 1916.

CONTENTS

	PAGE
PREFACE	iii
SYSTEMATIC INDEX TO VOL. V.	v
LIST OF ILLUSTRATIONS	xiii
SYSTEMATIC INDEX TO VOLS. I.-V.	xv

ORDER UNGULATA.

SUBORDER II.—PERISSODACTYLA	1
FAMILY I.—EQUIDÆ	3
GENUS EQUUS	4
1. SUBGENUS EQUUS	6
I. EQUUS CABALLUS	6
A.—Equus caballus caballus	6
B.—Equus caballus przewalskii	7
II. EQUUS KIANG	8
III. EQUUS HEMIONUS	11
IV. EQUUS ONAGER	12
A.—Equus onager indicus	12
B.—Equus onager castaneus	13
C.—Equus onager hemippus	14
D.—Equus onager onager	14
2. SUBGENUS DOLICHOHIPPIUS	15
V. EQUUS (DOLICHOHIPPIUS) GREVYI	17
A.—Equus grevyi grevyi	18
B.—Equus grevyi berberensis	18
3. SUBGENUS HIPOTIGRIS	19
VI. EQUUS (HIPOTIGRIS) QUAGGA	19
A.—Equus quagga quagga	20
B.—Equus quagga burchelli	21
C.—Equus quagga antiquorum	22
D.—Equus quagga pococki	23
E.—Equus quagga chapmani	23
F.—Equus quagga wahlbergi	24

	PAGE
G.— <i>Equus quagga transvaalensis</i>	25
H.— <i>Equus quagga selousi</i>	25
I.— <i>Equus quagga boehmi</i>	26
J.— <i>Equus quagga zambesiensis</i>	26
K.— <i>Equus quagga crawshayi</i>	27
L.— <i>Equus quagga cuninghamei</i>	28
M.— <i>Equus quagga granti</i>	30
VII. <i>EQUUS (HIPOTIGRIS) FOAI</i>	32
VIII. <i>EQUUS (HIPOTIGRIS) ZEBRA</i>	34
A.— <i>Equus zebra zebra</i>	35
B.— <i>Equus zebra hartmannæ</i>	36
4. SUBGENUS <i>ASINUS</i>	36
IX. <i>EQUUS (ASINUS) ASINUS</i>	36
A.— <i>Equus asinus asinus</i>	37
B.— <i>Equus asinus africanus</i>	37
C.— <i>Equus asinus tæniopus</i>	38
D.— <i>Equus asinus somaliensis</i>	38
FAMILY II.— <i>TAPIRIDÆ</i>	39
GENUS <i>TAPIRUS</i>	39
1. SUBGENUS <i>ACROCODIA</i>	39
I. <i>TAPIRUS (ACROCODIA) INDICUS</i>	39
2. SUBGENUS <i>TAPIRUS</i>	41
II. <i>TAPIRUS TERRESTRIS</i>	41
A.— <i>Tapirus terrestris terrestris</i>	42
B.— <i>Tapirus terrestris laurillardi</i>	43
C.— <i>Tapirus terrestris mexianæ</i>	43
D.— <i>Tapirus terrestris spegazzinii</i>	43
III. <i>TAPIRUS ROULINI</i>	44
3. SUBGENUS <i>TAPIRELLA</i>	44
IV. <i>TAPIRUS (TAPIRELLA) BAIRDI</i>	45
V. <i>TAPIRUS (TAPIRELLA) DOWI</i>	46
FAMILY III.— <i>RHINOCEROTIDÆ</i>	46
GENUS <i>RHINOCEROS</i>	46
1. SUBGENUS <i>RHINOCEROS</i>	46
I. <i>RHINOCEROS UNICORNIS</i>	47
II. <i>RHINOCEROS SONDAICUS</i>	48
2. SUBGENUS <i>DICERORHINUS</i>	49
III. <i>RHINOCEROS (DICERORHINUS) SUMATRENSIS</i>	49
A.— <i>Rhinoceros sumatrensis sumatrensis</i>	50
B.— <i>Rhinoceros sumatrensis blythi</i>	50
C.— <i>Rhinoceros sumatrensis lasiotis</i>	51

	PAGE
3. SUBGENUS DICEROS	51
IV. RHINOCEROS (DICEROS) BICORNIS	52
A.—Rhinoceros bicornis bicornis	54
B.—Rhinoceros bicornis holmwoodi	54
C.—Rhinoceros bicornis somaliensis	55
D.—Rhinoceros bicornis cucullatus	55
V. RHINOCEROS (DICEROS) SIMUS	55
A.—Rhinoceros simus simus	56
B.—Rhinoceros simus cottoni	56
SUBORDER III.—HYRACOIDEA	58
FAMILY PROCAVIIDÆ	58
GENUS PROCAVIA	58
1. SUBGENUS PROCAVIA	58
I. PROCAVIA CAPENSIS	58
A.—Procavia capensis capensis	60
B.—Procavia capensis windhuki	60
C.—Procavia capensis reuningi	60
D.—Procavia capensis marlothi	60
E.—Procavia capensis schultzei	61
F.—Procavia capensis waterbergensis	61
II. PROCAVIA NIGRICANS	61
III. PROCAVIA JOHNSTONI	61
IV. PROCAVIA SCIOANA	62
V. PROCAVIA ERLANGERI	62
VI. PROCAVIA ALPINI	62
VII. PROCAVIA KERSTINGI	62
VIII. PROCAVIA GOSLINGI	62
IX. PROCAVIA SYRIACA	63
A.—Procavia syriaca syriaca	64
B.—Procavia syriaca jayakari	64
X. PROCAVIA RUFICEPS	64
XI. PROCAVIA BURTONI	64
XII. PROCAVIA SHARICA	65
XIII. PROCAVIA HABESSINICA	65
A.—Procavia habessinica habessinica	66
B.—Procavia habessinica minor	66
XIV. PROCAVIA FERRUGINEA	66
XV. PROCAVIA PALLIDA	66
XVI. PROCAVIA RUWENZORII	66

	PAGE
XVII. <i>PROCAVIA MACKINDERI</i>	67
A.— <i>Procavia mackinderi mackinderi</i>	67
B.— <i>Procavia mackinderi zelotes</i>	67
XVIII. <i>PROCAVIA LOPEZI</i>	67
XIX. <i>PROCAVIA OWENI</i>	67
XX. <i>PROCAVIA JACKSONI</i>	68
XXI. <i>PROCAVIA DÆMON</i>	68
XXII. <i>PROCAVIA MATSCHIEI</i>	68
XXIII. <i>PROCAVIA WELWITSCHI</i>	68
XXIV. <i>PROCAVIA VOLKMANNI</i>	69
XXV. <i>PROCAVIA LATASTEI</i>	69
XXVI. <i>PROCAVIA BRUCEI</i>	69
A.— <i>Procavia brucei brucei</i>	69
B.— <i>Procavia brucei somalica</i>	70
C.— <i>Procavia brucei hindei</i>	70
D.— <i>Procavia brucei borana</i>	70
E.— <i>Procavia brucei ruddi</i>	71
F.— <i>Procavia brucei maculata</i>	71
G.— <i>Procavia brucei granti</i>	71
H.— <i>Procavia brucei manningi</i>	72
I.— <i>Procavia brucei thomasi</i>	72
J.— <i>Procavia brucei kempi</i>	72
K.— <i>Procavia brucei princeps</i>	73
XXVII. <i>PROCAVIA PUMILA</i>	73
A.— <i>Procavia pumila pumila</i>	73
B.— <i>Procavia pumila rudolfi</i>	73
XXVIII. <i>PROCAVIA SLATINI</i>	74
XXIX. <i>PROCAVIA MUENZERI</i>	74
XXX. <i>PROCAVIA FROMMI</i>	74
XXXI. <i>PROCAVIA SCHUBOTZI</i>	74
XXXII. <i>PROCAVIA BOUNHIOLI</i>	74
XXXIII. <i>PROCAVIA BUTLERI</i>	74
XXXIV. <i>PROCAVIA BAMENDÆ</i>	75
XXXV. <i>PROCAVIA KAMERUNENSIS</i>	75
2. SUBGENUS <i>DENDROHYRAX</i>	75
XXXVI. <i>PROCAVIA (DENDROHYRAX) SCHEELEI</i>	75
XXXVII. <i>PROCAVIA (DENDROHYRAX) VALIDA</i>	75
XXXVIII. <i>PROCAVIA (DENDROHYRAX) EMINI</i>	76
A.— <i>Procavia emini emini</i>	76
B.— <i>Procavia emini latrator</i>	76

	PAGE
XXXIX. PROCAVIA (DENDROHYRAX) ARBOREA . . .	76
XL. PROCAVIA (DENDROHYRAX) STUHLMANNI . . .	77
XLI. PROCAVIA (DENDROHYRAX) NEUMANNI . . .	77
XLII. PROCAVIA (DENDROHYRAX) DORSALIS . . .	77
XLIII. PROCAVIA (DENDROHYRAX) MARMOTA . . .	78
XLIV. PROCAVIA (DENDROHYRAX) BETTONI . . .	78
XLV. PROCAVIA (DENDROHYRAX) ASCHANTIENSIS . . .	78
XLVI. PROCAVIA (DENDROHYRAX) TERRICOLA . . .	78
XLVII. PROCAVIA (DENDROHYRAX) ADAMETZI . . .	78
A.—Procavia adametzi adametzi . . .	78
B.—Procavia adametzi zenkeri . . .	79
XLVIII. PROCAVIA (DENDROHYRAX) TESSMANNI . . .	79
XLIX. PROCAVIA (DENDROHYRAX) CRAWSHAYI . . .	79
A.—Procavia crawshayi crawshayi . . .	79
B.—Procavia crawshayi laikipia . . .	79
L. PROCAVIA (DENDROHYRAX) ADOLFI-FRIEDERICI . . .	79
LI. PROCAVIA (DENDROHYRAX) SCHEFFLERI . . .	80
SUBORDER IV.—PROBOSCIDEA	80
FAMILY ELEPHANTIDÆ	80
GENUS ELEPHAS	80
1. SUBGENUS ELEPHAS	81
I. ELEPHAS MAXIMUS	81
A.—Elephas maximus maximus	82
B.—Elephas maximus zeylanicus	83
C.—Elephas maximus sumatranus	83
D.—Elephas maximus hirsutus	84
2. SUBGENUS LOXODONTA	85
II. ELEPHAS (LOXODONTA) AFRICANUS	85
A.—Elephas africanus capensis	86
B.—Elephas africanus selousi	87
C.—Elephas africanus cyclotis	87
D.—Elephas africanus cottoni	87
E.—Elephas africanus knochenhaueri	88
F.—Elephas africanus peeli	88
G.—Elephas africanus cavendishi	89
H.—Elephas africanus oxyotis	89
I.—Elephas africanus orleansi	90
J.—Elephas africanus rothschildi	91
K.—Elephas africanus albertensis	91

LIST OF ILLUSTRATIONS

	PAGE
Fig. 1.—Bones of the Left Fore-foot of a Horse (A) and of a Rhinoceros (B)	2
„ 2.—Skull of Female Tarpan, or Mongolian Wild Horse (<i>Equus caballus przewalskii</i>)	4
„ 3.—The Right Upper Cheek-teeth of the Tarpan, or Mongolian Wild Horse (<i>Equus caballus przewalskii</i>). (From Lydekker, <i>The Horse and its Relatives</i> , 1912)	5
„ 4.—Female Tarpan, or Mongolian Wild Horse (<i>Equus caballus przewalskii</i>)	8
„ 5.—Female Kiang (<i>Equus kiang</i>). (From Lydekker, <i>Proc. Zool. Soc.</i> 1904)	10
„ 6.—Female Kobdo Onager (<i>Equus onager castaneus</i>). (From Lydekker, <i>Novitates Zoologicæ</i> , 1904)	13
„ 7.—Head of Grévy's Zebra (<i>Equus [Dolichohippus] grevyi</i>). (From Lydekker, <i>The Horse and its Relatives</i> , 1912)	15
„ 8.—Head of Grévy's Zebra (<i>Equus [Dolichohippus] grevyi</i>)	16
„ 9.—Grévy's Zebra (<i>Equus [Dolichohippus] grevyi</i>)	17
„ 10.—The True, or Cape Quagga (<i>Equus quagga quagga</i>)	20
„ 11.—Cuninghame's Zebra (<i>Equus quagga cuninghamei</i>). (From a photograph by Mr. F. A. O. Pym)	28
„ 12.—Cuninghame's Zebra (<i>Equus quagga cuninghamei</i>). (From a photograph by Mr. F. A. O. Pym)	29
„ 13.—Male Masai Zebra (<i>Equus quagga granti</i>). (From Selater, <i>Proc. Zool. Soc.</i> 1901)	31
„ 14.—Skin of Foa's Zebra (<i>Equus [Hippotigris] foai</i>). (From Lydekker, <i>The Horse and its Relatives</i> , 1912)	33
„ 15.—The Mountain Zebra (<i>Equus [Hippotigris] zebra</i>)	34
„ 16.—Male Nubian Wild Ass (<i>Equus asinus africanus</i>). (From Lydekker, <i>Novitates Zoologicæ</i> , 1904)	37
„ 17.—Head of a Great Indian Rhinoceros (<i>Rhinoceros unicornis</i>)	47

	PAGE
Fig. 18.—Heads of (a) White Rhinoceros (<i>Rhinoceros</i> [<i>Diceros</i>] <i>simus</i>), and (b) Black Rhinoceros (<i>R. [D.] bicornis</i>)	52
„ 19.—Upper Aspect of Skull of A, <i>Rhinoceros bicornis</i> , and B, <i>R. bicornis somaliensis</i> . (From Lydekker, <i>Proc. Zool. Soc.</i> 1911)	53
„ 20.—Male Nile White Rhinoceros (<i>Rhinoceros simus cottoni</i>). (From Heller, <i>Smithson. Misc. Coll.</i> 1913)	57
„ 21.—The Syrian Hyrax (<i>Procavia syriaca</i>)	63
„ 22.—An Upper Molar (A) of the African Elephant (<i>E. africanus</i>), and (B) of the Asiatic Elephant (<i>Elephas maximus</i>)	80
„ 23.—Large Male Indian Elephant (<i>Elephas maximus</i>). (From S. S. Flower, "Report on a Zoological Mission to India in 1913," Ministry of Public Works, Cairo, 1914)	81
„ 24.—Male Elephant (<i>Elephas maximus sumatranus</i>). (From a photograph sent by Dr. J. Büttikofer)	83
„ 25.—Young Female Malay Elephant (<i>Elephas maximus hirsutus</i>)	84
„ 26.—Skull of African Elephant (<i>Elephas africanus</i>)	85
„ 27.—Head of a Female Cape Elephant (<i>Elephas africanus capensis</i>). (From Lydekker, <i>Proc. Zool. Soc.</i> 1907)	86
„ 28.—Head of Male Elephant (<i>Elephas africanus knochen-haueri</i> ?). (From Lydekker, <i>Proc. Zool. Soc.</i> 1907)	88
„ 29.—Head of an Abyssinian Elephant (<i>Elephas africanus oxyotis</i>). (From Lydekker, <i>Proc. Zool. Soc.</i> 1907)	89
„ 30.—Skull of Abyssinian Elephant (<i>Elephas africanus oxyotis</i>). (From Lydekker, <i>Proc. Zool. Soc.</i> 1907)	90
„ 31.—Skull of Semliki Elephant (<i>Elephas africanus albertensis</i>). (From Lydekker, <i>Proc. Zool. Soc.</i> 1907)	91

GENERAL SYSTEMATIC INDEX.

(VOLS. I.-V.)

Order UNGULATA.

Suborder I. ARTIODACTYLA.

Section A. PECORA.

Family I. BOVIDÆ.

Subfamily i. BOVINÆ.

Genus Bos.

1. Subgenus Bos.

	Vol. I. PAGE
I. Bos taurus	12

2. Subgenus BIBOS.

II. Bos (Bibos) gaurus	13
A. Bos gaurus gaurus	18
B. " " readi	20
C. " " hubbacki	20

III. Bos (Bibos) banteng	21
A. Bos banteng banteng	23
B. " " lowi	25
C. " " birmanicus	27
D. " " porteri	28
E. " " butleri	29
F. " " subsp.	29

3. Subgenus POËPHAGUS.

IV. Bos (Poëphagus) grunniens	31
" grunniens mutus	33

4. Subgenus BISON.

V. Bos (Bison) bonasus	35
A. Bos bonasus bonasus	36
B. " " caucasius	36

VI. Bos (Bison) bison	37
A. Bos bison bison	38
B. " " athabascæ	39

V.

	5. Subgenus BUBALUS.	Vol. I.	V.
		PAGE	PAGE
VII.	Bos (Bubalus) bubalis	41	
A.	Bos bubalis bubalis	43	
B.	" " macroceros	45	
C.	" " fulvus	45	
D.	" " hosei	46	
VIII.	Bos (Bubalus) mindorensis	47	
IX.	Bos (Bubalus) depressicornis	48	
A.	Bos depressicornis depressicornis	49	
B.	" " fergusoni	50	
X.	Bos (Bubalus) caffer	50	
A.	Bos caffer caffer	52	
B.	" " neumanni	53	
C.	" " ruahensis	53	
D.	" " schillingsi	54	
D ¹ .	" " athiensis . . . . .	..	92
E.	" " wemberensis	54	
F.	" " gariepensis	55	
G.	" " radcliffei	55	
H.	" " limpopoënsis	56	
I.	" " azrakensis	57	
J.	" " wiesei	57	
K.	" " æquinotialis	58	94
L.	" " matthewsi	59	
M.	" " cottoni	60	
N.	" " thierrii	61	
O.	" " mayi	62	
P.	" " brachyceros	62	94
P ¹ .	" " houi . . . . .	..	94
Q.	" " planiceros	66	
Q ¹ .	" " adamauæ . . . . .	..	95
R.	" " hunti	67	95
S.	" " nanus	68	
T.	" " beddingtoni	70	
T ¹ .	" " diehli . . . . .	..	95
T ² .	" " hylæus . . . . .	..	96
T ³ .	" " adametzi . . . . .	..	96
T ⁴ .	" " nuni . . . . .	..	97
U.	" " simpsoni	70	
	Other names applied to buffaloes from British and German East Africa		93

Subfamily ii. CAPRINÆ.

I. Genus OVIS.

I.	Ovis aries	75	
II.	Ovis musimon	75	97
III.	Ovis orientalis	77	
A.	Ovis orientalis orientalis	79	
B.	" " gmelini	80	
C.	" " anatolica	81	
D.	" " urmiana	81	
E.	" " erskinei	82	
F.	" " isphahanica	83	

	Vol. I. PAGE	V. PAGE
IV. <i>Ovis laristanica</i>	83	
V. <i>Ovis vignei</i>	84	
A. <i>Ovis vignei vignei</i>	85	
B. " " <i>punjabiensis</i>	86	
C. " " <i>cycloceros</i>	88	
D. " " <i>arkar</i>	90	
VI. <i>Ovis ammon</i>	92	
A. <i>Ovis ammon ammon</i>	95	
A ¹ . " " <i>kozlovi</i> . . . . .	..	97
B. " " <i>mongolica</i>	96	
C. " " <i>hodgsoni</i>	97	
D. " " <i>storcki</i>	100	
E. " " <i>sairensis</i>	101	
F. " " <i>littledalei</i>	102	
G. " " <i>nigrimontana</i>	103	-98
G ¹ . " " <i>severtzovi</i> . . . . .	..	98
H. " " <i>karelini</i>	104	
I. " " <i>heinsi</i>	105	
I ¹ . " " <i>collium</i> . . . . .	..	98
J. " " <i>humei</i>	105	
K. " " <i>poli</i>	106	
Other races described	109	99
VII. <i>Ovis canadensis</i>	109	
A. <i>Ovis canadensis canadensis</i>	111	
B. " " <i>californiana</i>	113	
C. " " <i>auduboni</i>	113	
D. " " <i>nelsoni</i>	114	
E. " " <i>sierræ</i>	115	
F. " " <i>cremnobates</i>	115	
G. " " <i>mexicana</i>	116	
H. " " <i>gaillardi</i>	116	
I. " " <i>dalli</i>	118	
J. " " <i>kenaiensis</i>	119	
K. " " <i>fannini</i>	119	
L. " " <i>stonei</i>	120	
M. " " <i>cowani</i>	120	
N. " " <i>nivicola</i>	121	
O. " " <i>borealis</i>	121	99
P. " " <i>alleni</i>	122	

II. Genus *AMMOTRAGUS*.

<i>Ammotragus lervia</i>	123
A. <i>Ammotragus lervia lervia</i>	124
B. " " <i>sahariensis</i>	125
C. " " <i>ornata</i>	125
D. " " <i>blainei</i>	126

III. Genus *PSEUDOIS*.

<i>Pseudois nahoor</i>	126
----------------------------------	-----

		IV. Genus CAPRA.	Vol. I. PAGE
I.	Capra caucasica	.	131
	A. Capra caucasica cylindricornis	.	131
	B. " " caucasica	.	133
II.	Capra severtzowi	.	134
	A. Capra severtzowi severtzowi	.	136
	B. " " dinniki	.	137
	Incertæ Sedis	.	138
III.	Capra pyrenaica	.	138
	A. Capra pyrenaica pyrenaica	.	139
	B. " " lusitanica	.	139
	C. " " victoriæ	.	140
	D. " " hispanica	.	140
IV.	Capra ibex	.	141
V.	" sibirica	.	142
	A. Capra sibirica sibirica	.	143
	B. " " fasciata	.	144
	C. " " altaica	.	144
	D. " " lydekkeri	.	145
	E. " " hagenbecki	.	145
	F. " " almasyi	.	146
	G. " " merzbacheri	.	147
	H. " " alaiana	.	148
	I. " " wardi	.	148
	J. " " sakeen.	.	149
	K. " " dauvergnei	.	150
	L. " " pedri	.	151
	M. " " filippii	.	152
VI.	Capra nubiana	.	153
	A. Capra nubiana nubiana	.	154
	B. " " sinaitica	.	154
	C. " " mengesi	.	155
VII.	Capra walie	.	155
VIII.	" hircus	.	156
	A. Capra hircus ægagrus	.	157
	B. " " blythi	.	159
	C. " " cretensis	.	161
	D. " " picta	.	161
IX.	Capra falconeri	.	161
	A. Capra falconeri falconeri	.	163
	B. " " cashmiriensis	.	164
	C. " " subsp.	.	166
	D. " " megaceros	.	167
	E. " " jerdoni	.	169
	F. " " chialtanensis, subsp. n.	.	171

V. Genus HEMITRAGUS.

I.	Hemitragus jemlahicus	.	173
II.	" jayakari	.	176
III.	" hylocrius	.	177

Subfamily iii. RUPICAPRINÆ.

I. Genus RUPICAPRA.

Vol. I.
PAGE

Rupicapra rupicapra	180
A. Rupicapra rupicapra rupicapra	181
B. " " fæsula	182
C. " " ornata	182
D. " " pyrenaica	183
E. " " parva	183
F. " " caucasica	183
G. " " asiatica	185

II. Genus CAPRICORNIS.

1. Subgenus CAPRICORNIS.

I. Capricornis sumatrensis	188
A. Capricornis sumatrensis sumatrensis	189
B. " " robinsoni	189
C. " " swettenhami	189
D. " " milne-edwardsi	190
E. " " jamrachi	191
F. " " rubidus	192
G. " " thar	193
H. " " humei	195
I. " " rodoni	195
II. Capricornis argyrochætes	196

2. Subgenus CAPRICORNULUS.

III. Capricornis (Capricornulus) crispus	200
A. Capricornis crispus crispus	200
B. " " pryerianus	201
IV. Capricornis (Capricornulus) swinhoei	201

III. Genus NEMORHÆDUS.

I. Nemorhædus goral	203
II. " " hodgsoni	206
III. " " griseus	206
IV. " " caudatus	208
V. " " raddeanus	209

IV. Genus BUDORCAS.

I. Budorcas taxicolor	211
A. Budorcas taxicolor taxicolor	211
B. " " whitei	213
II. Budorcas tibetana	214
III. " " bedfordi	217

V. Genus OREAMNOS.

Oreamnos americanus	218
A. Oreamnos americanus americanus	219
B. " " columbiæ	220
C. " " missoulæ	220
D. " " kennedyi	221

Subfamily iv. OVIBOVINÆ.

Genus OVIBOS.		Vol. I. PAGE	V. PAGE
Ovibos moschatus		224	
A. Ovibos moschatus moschatus		225	
B. " " wardi		227	
C. " " niphœcus		228	
D. " " melvillensis		228	
E. " " mackenzianus		229	

Subfamily v. BUBALINÆ.

I. Genus BUBALIS.		Vol. II. PAGE	
I. Bubalis buselaphus		4	
II. " major		6	
A. Bubalis major major . . . . .		..	100
B. " " invadens . . . . .		..	100
C. " " matschiei . . . . .		..	100
III. Bubalis tora		8	
A. Bubalis tora tora		10	
B. " " digglei		11	
C. " " rahatensis		11	
D. " " swaynei		12	
E. " " noacki		13	
IV. Bubalis cokei		13	
A. Bubalis cokei cokei		15	
B. " " rothschildi		16	
C. " " nakuræ		16	
D. " " kongoni		17	
Other names . . . . .		..	101
V. Bubalis neumanni		18	
VI. " lelwel		19	101
A. Bubalis lelwel lelwel		20	
B. " " tschadensis		20	
B ¹ . " " modestus . . . . .		..	102
C. " " jacksoni		21	
C ¹ . " " kenia . . . . .		..	102
D. " " niediecki		23	
E. " " insignis		23	
F. " " roosevelti		24	
VI ^A . Bubalis luzarchei . . . . .		..	102
VII. " caama		24	
A. Bubalis caama caama		27	
B. " " selbornei		27	
VIII. Bubalis lichtensteini		29	

II. Genus DAMALISCUS.

I. Damaliscus pygargus	33
II. " albifrons	35
III. " lunatus	37

	Vol.	II.	V.
	PAGE	PAGE	PAGE
IV. <i>Damaliscus korrigum</i>	39	103	
A. <i>Damaliscus korrigum korrigum</i>	41		
A ¹ . " " <i>lyra</i> . . . . .	..	103	
A ² . " " <i>purpurescens</i> . . . . .	..	104	
B. " " <i>tiang</i>	42		
C. " " <i>selousi</i>	44		
D. " " <i>jonesi</i>	44		
D ¹ . " " <i>topi</i> . . . . .	..	104	
E. " " <i>jimela</i>	44	104	
E ¹ . " " <i>eurus</i> . . . . .	..	105	
F. " " <i>phalius</i>	46		
V. <i>Damaliscus hunteri</i>	46		

III. Genus CONNOCHÆTES.

I. <i>Connochætēs gnu</i>	50	
II. " <i>taurinus</i>	54	
A. <i>Connochætēs taurinus taurinus</i>	56	
B. " " <i>johnstoni</i>	57	
B ¹ . " " <i>cooksoni</i> . . . . .	..	105
C. " " <i>hecki</i>	57	
D. " " <i>albojubatus</i>	58	
E. " " <i>mearnsi</i> . . . . .	..	106
Other names . . . . .	..	106

Subfamily vi. CEPHALOPHINÆ.

Genus CEPHALOPHUS.

1. Subgenus CEPHALOPHUS.

I. <i>Cephalophus sylvicultrix</i>	63
II. " <i>jentinki</i>	66
III. " <i>spadix</i>	67
IV. " <i>natalensis</i>	68
A. <i>Cephalophus natalensis natalensis</i>	69
B. " " <i>amœnus</i>	69
C. " " <i>robertsi</i>	70
D. " " <i>bradshawi</i>	71
V. <i>Cephalophus centralis</i>	71
VI. " <i>nigrifrons</i>	72
VII. " <i>claudi</i>	73
VIII. " <i>rubidus</i>	73
IX. " <i>weynsi</i>	74
X. " <i>johnstoni</i>	75
XI. " <i>ignifer</i>	75
XII. " <i>harveyi</i>	76
A. <i>Cephalophus harveyi harveyi</i>	77
B. " " <i>keniæ</i>	77
XIII. <i>Cephalophus leopoldi</i>	78
XIV. " <i>leucogaster</i>	79

	Vol. II. PAGE	V. PAGE
XV. <i>Cephalophus dorsalis</i>	80	
XVI. " <i>castaneus</i>	81	
A. <i>Cephalophus castaneus castaneus</i> . . . . .	..	106
B. " " <i>orientalis</i> . . . . .	..	106
XVII. <i>Cephalophus leucochilus</i>	82	
(?) " <i>emini</i>	83	
XVIII. " <i>ogilbyi</i>	83	
XIX. " <i>brookei</i>	84	
XX. " <i>callipygus</i>	85	
XXI. " <i>rufilatus</i>	86	
A. <i>Cephalophus rufilatus rufilatus</i>	87	
B. " " <i>rubidior</i>	89	
XXII. <i>Cephalophus doriæ</i>	89	
XXIII. " <i>niger</i>	91	
XXIV. " <i>walkeri</i>	92	
2. Subgenus GUEVEI.		
XXV. <i>Cephalophus (Guevei) maxwelli</i>	93	
XXVI. " " <i>melanorheus</i>	96	
A. <i>Cephalophus melanorheus melanorheus</i>	97	
B. " " <i>sundevalli</i>	97	
C. " " <i>anchietæ</i>	98	
D. " " <i>æquatorialis</i>	98	
D ¹ . " " <i>schultzei</i> . . . . .	..	107
E. " " <i>musculoides</i>	99	
XXVII. <i>Cephalophus (Guevei) monticola</i>	100	
XXVIII. " " <i>nyasæ</i>	103	
A. <i>Cephalophus nyasæ nyasæ</i>	103	
B. " " <i>defriesi</i>	104	
C. " " <i>congius</i>	104	
XXIX. <i>Cephalophus (Guevei) hecki</i>	105	
XXX. " " <i>simpsoni</i>	105	
XXXI. " " <i>lugens</i>	106	
3. Subgenus SYLVICAPRA.		
XXXII. <i>Cephalophus (Sylvicapra) grimmi</i>	107	
A. <i>Cephalophus grimmi grimmi</i>	110	
B. " " <i>flavescens</i>	112	
C. " " <i>altifrons</i>	113	
D. " " <i>splendidulus</i>	114	
E. " " <i>coronatus</i>	114	
F. " " <i>campbelliæ</i>	116	
G. " " <i>abyssinicus</i>	117	107
G ¹ . " " <i>pallidior</i> . . . . .	..	107
G ² . " " <i>luteus</i> . . . . .	..	108
H. " " <i>nyansæ</i>	118	
I. " " <i>hindei</i>	119	
J. " " <i>altivallis</i>	120	

	Vol. II. PAGE	V. PAGE
K. <i>Cephalophus grimmi shirensis</i>	120	
L. " " <i>roosevelti</i>	121	
M. " " <i>deserti</i> . . . . .	..	108
XXXIII. <i>Cephalophus (Sylvicapra) leucoprosopus</i>	121	

Subfamily vii. OREOTRAGINÆ.

Genus OREOTRAGUS.

Oreotragus oreotragus	123
A. <i>Oreotragus oreotragus oreotragus</i>	126
B. " " <i>saltatrixoides</i>	126
C. " " <i>aureus</i>	127
D. " " <i>schillingsi</i>	127
E. " " <i>somalicus</i>	128
F. " " <i>aceratos</i>	130
G. " " <i>porteousi</i>	130

Subfamily viii. NEOTRAGINÆ.

I. Genus OUREBIA.

I. <i>Ourebia ourebi</i>	133
II. " <i>hastata</i>	135
III. " <i>nigricaudata</i>	137
IV. " <i>montana</i>	138
A. <i>Ourebia montana montana</i>	139
A ¹ . " " <i>dorcas</i>	109
A ² . " " <i>splendida</i>	109
B. " " <i>æquatoria</i>	140
V. <i>Ourebia haggardi</i>	140
VI. " <i>kenyæ</i>	141
VII. " <i>microdon</i>	142
VIII. " <i>goslingi</i>	143
IX. " <i>cottoni</i>	144
X. " <i>gallarum</i>	144

II. Genus RAPHICERUS.

1. Subgenus RAPHICERUS.

I. <i>Raphicerus campestris</i>	146
A. <i>Raphicerus campestris campestris</i>	149
B. " " <i>natalensis</i>	151
C. " " <i>neumanni</i>	151
D. " " <i>stigmaticus</i>	152
E. " " <i>capricornis</i>	153
II. <i>Raphicerus sharpei</i>	153
A. <i>Raphicerus sharpei sharpei</i>	154
B. " " <i>colonicus</i>	155

2. Subgenus NOTOTRAGUS.

III. <i>Raphicerus (Nototragus) melanotis</i>	155
---	-----

III. Genus NEOTRAGUS.

1. Subgenus NESOTRAGUS.

	Vol. II. PAGE	V. PAGE
I. Neotragus (Nesotragus) moschatus	159	
A. Neotragus moschatus moschatus	160	
B. " " akeleyei	161	
C. " " deserticola	162	
II. Neotragus (Nesotragus) livingstonianus	162	
A. Neotragus livingstonianus livingstonianus	163	
B. " " zuluensis	164	

2. Subgenus HYLARNUS.

III. Neotragus (Hylarnus) batesi	166	
IV. " " harrisoni	167	

3. Subgenus NEOTRAGUS.

V. Neotragus pygmaeus	169	110
---------------------------------	-----	-----

Subfamily ix. MADOQUINÆ.

I. Genus MADOQUA.

1. Subgenus MADOQUA.

I. Madoqua saltiana	174	
II. " swaynei	176	
III. " piacentinii	177	
IV. " phillipsi	177	
A. Madoqua phillipsi phillipsi	178	
B. " " harrarensis	179	
C. " " gubanensis	181	
V. Madoqua erlangeri	182	
VI. " cordeauxi	182	

2. Subgenus RHYNCHOTRAGUS.

VII. Madoqua (Rhynchotragus) damarensis	184	
A. Madoqua damarensis damarensis	184	
B. " " variani	185	
VIII. Madoqua (Rhynchotragus) cavendishi	185	
A. Madoqua cavendishi cavendishi	186	
B. " " minor	187	
IX. Madoqua (Rhynchotragus) kirki	187	
A. Madoqua kirki kirki	188	
B. " " nyikæ	189	
C. " " hindei	190	
X. Madoqua (Rhynchotragus) thomasi	191	
XI. " " guentheri	191	
A. Madoqua guentheri guentheri	192	
B. " " wroughtoni	193	
C. " " smithi	194	
XII. Madoqua (Rhynchotragus) nasoguttata	194	

II. Genus DORCOTRAGUS.

Dorcotragus megalotis	195	
---------------------------------	-----	--

Subfamily x. REDUNCINÆ.

I. Genus PELEA.

Vol. II. V.
PAGE PAGE

Pelea capreolus	199
---------------------------	-----

II. Genus REDUNCA.

1. Subgenus ELEOTRAGUS.

I. Redunca (Eleotragus) arundinum	203
A. Redunca arundinum arundinum	206
B. " " occidentalis	210

2. Subgenus REDUNCA 210

II. Redunca redunca	211
A. Redunca redunca redunca	213
B. " " bohor	214
C. " " wardi	215
D. " " tohi	217
E. " " cottoni	217 110
F. " " nigeriensis	219
G. " " ugandæ	220
III. Redunca fulvorufula	220
A. Redunca fulvorufula fulvorufula	222
B. " " chanleri	223
C. " " shoana	224

III. Genus KOBUS.

1. Subgenus KOBUS.

I. Kobus ellipsiprymnus	226
Other names	228
II. Kobus defassa	232 110
A. Kobus defassa defassa	238
B. " " ugandæ	240
C. " " unctuosus	241
D. " " crawshayi	244
E. " " penricei	245
Other names	234 110

2. Subgenus ONOTRAGUS.

III. Kobus (Onotragus) leche	246
IV. " " robertsi	249
V. " " smithemani	249
VI. " " maria	251

3. Subgenus ADENOTA.

VII. Kobus (Adenota) kob	253
A. Kobus kob kob	256
A ¹ . " " riparius	258 111
B. " " nigricans	258
C. " " adolfi	259
D. " " bahr-keetæ	259

	Vol. II. PAGE
E. <i>Kobus kob ubangiensis</i>	259
F. " " <i>alurae</i>	260
G. " " <i>loderi</i>	260
H. " " <i>neumanni</i>	262
I. " " <i>notatus</i>	263
J. " " <i>thomasi</i>	264
K. " " <i>nigroscapulatus</i>	265
L. " " <i>leucotis</i>	266
VIII. <i>Kobus (Adenota) vardoni</i>	268
A. <i>Kobus vardoni vardoni</i>	269
B. " " <i>senganus</i>	269

Subfamily UNCERTAIN.

Genus AMMODORCAS.

	Vol. III. PAGE
<i>Ammodorcas clarkei</i>	3

Subfamily xi. ÆPYCEROTINÆ.

Genus ÆPYCEROS.

<i>Æpyceros melampus</i>	5
A. <i>Æpyceros melampus melampus</i>	8
B. " " <i>johnstoni</i>	9
C. " " <i>katangæ</i>	10
D. " " <i>suara</i>	10
E. " " <i>rendilis</i>	11
F. " " <i>petersi</i>	12

Subfamily xii. SAIGINÆ.

Genus SAIGA.

<i>Saiga tatarica</i>	13
---------------------------------	----

Subfamily xiii. PANTHOLOPINÆ.

Genus PANTHOLOPS.

<i>Pantholops hodgsoni</i>	18
--------------------------------------	----

Subfamily xiv. ANTILOPINÆ.

I. Genus ANTILOPE.

<i>Antilope cervicapra</i>	23
--------------------------------------	----

II. Genus GAZELLA.

1. Subgenus PROCAPRA.

I. <i>Gazella (Procapra) picticaudata</i>	30
II. " " <i>przewalskii</i>	32
III. " " <i>gutturosa</i>	34
A. <i>Gazella gutturosa gutturosa</i>	37
B. " " <i>altaica</i>	39

2. Subgenus GAZELLA.		Vol. III. PAGE
IV. <i>Gazella subgutturosa</i>		42
A. <i>Gazella subgutturosa subgutturosa</i>		44
B. " " <i>sairensis</i>		45
V. <i>Gazella yarkandensis</i>		46
VI. " <i>seistanica</i>		47
VII. " <i>fuscifrons</i>		49
VIII. " <i>bennetti</i>		50
IX. " <i>cuvieri</i>		54
X. " <i>gazella</i>		55
XI. " <i>arabica</i>		57
A. <i>Gazella arabica arabica</i>		59
B. " " <i>erlangeri</i>		59
C. " " <i>rueppelli</i>		59
XII. <i>Gazella muscatensis</i>		60
XIII. " <i>marica</i>		60
XIV. " <i>rufifrons</i>		61
A. <i>Gazella rufifrons rufifrons</i>		63
B. " " <i>lavipes</i>		64
C. " " <i>hasleri</i>		65
D. " " <i>kanuri</i>		65
E. " " <i>centralis</i>		66
XV. <i>Gazella rufigula</i>		66
XVI. " <i>leptoceros</i>		67
A. <i>Gazella leptoceros leptoceros</i>		69
B. " " <i>loderi</i>		69
XVII. <i>Gazella dorcas</i>		70
A. <i>Gazella dorcas dorcas</i>		73
B. " " <i>isabella</i>		75
XVIII. <i>Gazella littoralis</i>		76
A. <i>Gazella littoralis littoralis</i>		77
B. " " <i>osiris</i>		78
XIX. <i>Gazella pelzelni</i>		78
XX. " <i>spekei</i>		80
XXI. " <i>tilonura</i>		81
XXII. " <i>albonotata</i>		82
XXIII. " <i>thomsoni</i>		83

3. Subgenus NANGER.

XXIV. <i>Gazella (Nanger) granti</i>		86
A. <i>Gazella granti granti</i>		88
B. " " <i>roosevelti</i>		90
C. " " <i>robertsi</i>		91
D. " " <i>lacuum</i>		92
E. " " <i>raineyi</i>		92
F. " " <i>brighti</i>		93
G. " " <i>notata</i>		93
H. " " <i>serengetæ</i>		94
I. " " <i>petersi</i>		95

	Vol.	III. PAGE	V. PAGE
XXV. <i>Gazella</i> (Nanger) <i>soemmerringi</i>		96	
A. <i>Gazella soemmerringi soemmerringi</i>		98	111
B. " " <i>erlangeri</i>		99	
C. " " <i>sibyllæ</i>		100	
D. " " <i>casanovæ</i>		100	
E. " " <i>berberana</i>		100	
F. " " <i>butteri</i>		101	
XXVI. <i>Gazella</i> (Nanger) <i>dama</i>		102	
A. <i>Gazella dama dama</i>		104	
B. " " <i>mhorr</i>		104	
C. " " <i>permista</i>		106	
D. " " <i>ruficollis</i>		106	
III. Genus <i>ANTIDORCAS</i> .			
<i>Antidorcas marsupialis</i>		109	
A. <i>Antidorcas marsupialis marsupialis</i>		111	
B. " " <i>centralis</i>		112	
IV. Genus <i>LITHOCRANIUS</i> .			
<i>Lithocranius walleri</i>		114	
A. <i>Lithocranius walleri walleri</i>		115	
B. " " <i>sclateri</i>		116	
Subfamily xv. <i>ORYGINÆ</i> .			
I. Genus <i>ORYX</i> .			
I. <i>Oryx gazella</i>		119	
II. " <i>beisa</i>		122	
A. <i>Oryx beisa beisa</i>		123	
B. " " <i>gallarum</i>		124	
C. " " <i>annectens</i>		125	
D. " " <i>callotis</i>		125	
III. <i>Oryx algazel</i>		126	
A. <i>Oryx algazel algazel</i>		128	
B. " " <i>dammah</i>		129	
IV. <i>Oryx leucoryx</i>		129	
II. Genus <i>HIPPOTRAGUS</i> .			
I. <i>Hippotragus leucophæus</i>		132	
II. " <i>equinus</i>		134	
A. <i>Hippotragus equinus equinus</i>		136	
B. " " <i>langheldi</i>		137	
C. " " <i>bakeri</i>		138	
D. " " <i>scharicus</i>		139	
E. " " <i>gambianus</i>		140	
III. <i>Hippotragus niger</i>		141	
A. <i>Hippotragus niger niger</i>		143	
B. " " <i>kirki</i>		144	
C. " " <i>roosevelti</i>		146	
III. Genus <i>ADDAX</i> .			
<i>Addax nasomaculatus</i>		146	
A. <i>Addax nasomaculatus nasomaculatus</i>		149	
B. " " <i>addax</i>		150	

Subfamily xvi. TRAGELAPHINÆ.

I. Genus TRAGELAPHUS.

1. Subgenus TRAGELAPHUS.

Vol. III.
PAGE

I. <i>Tragelaphus scriptus</i>	152
A. <i>Tragelaphus scriptus scriptus</i>	155
B. " " <i>obscurus</i>	157
C. " " <i>phaleratus</i>	157
D. " " <i>makalæ</i>	157
E. " " <i>knutsoni</i>	158
F. " " <i>decula</i>	159
G. " " <i>meneliki</i>	160
H. " " <i>powelli</i>	161
I. " " <i>multicolor</i>	162
J. " " <i>fasciatus</i>	163
K. " " <i>nigrinotatus</i>	163
L. " " <i>bor</i>	164
M. " " <i>pictus</i>	164
N. " " <i>signatus</i>	165
O. " " <i>uellensis</i>	166
P. " " <i>cottoni</i>	167
Q. " " <i>locorinæ</i>	168
R. " " <i>dianæ</i>	168
S. " " <i>dama</i>	170
T. " " <i>haywoodi</i>	170
U. " " <i>delamerei</i>	171
V. " " <i>eldomæ</i>	172
W. " " <i>olivaceus</i>	173
X. " " <i>massaicus</i>	173
Y. " " <i>meruensis</i>	175
Z. " " <i>ornatus</i>	175
Z ¹ . " " <i>roualeyni</i>	176
Z ² . " " <i>sylvaticus</i>	177
II. <i>Tragelaphus angasi</i>	179
III. " <i>buxtoni</i>	182

2. Subgenus LIMNOTRAGUS.

IV. <i>Tragelaphus (Limnotragus) spekei</i>	185
A. <i>Tragelaphus spekei spekei</i>	186
B. " " <i>gratus</i>	188
C. " " <i>albonotatus</i>	189
D. " " <i>selousi</i>	189

II. Genus STREPSICEROS.

I. <i>Strepsiceros imberbis</i>	192
A. <i>Strepsiceros imberbis imberbis</i>	194
B. " " <i>australis</i>	195
II. <i>Strepsiceros strepsiceros</i>	196
A. <i>Strepsiceros strepsiceros strepsiceros</i>	200
B. " " <i>bea</i>	201
C. " " <i>chora</i>	202

III. Genus BOÖCERCUS.		Vol. III. PAGE
Boöcerus eurycerus		203
A. Boöcerus eurycerus eurycerus		205
B. " " isaaci		206

IV. Genus TAUROTRAGUS.		
I. Taurotragus oryx		208
A. Taurotragus oryx oryx		211
B. " " livingstonei		212
C. " " selousi		213
D. " " niediecki		213
E. " " kaufmanni		214
F. " " pattersonianus		214
II. Taurotragus derbianus		216
A. Taurotragus derbianus derbianus		217
B. " " gigas		217
C. " " congolanus		219

V. Genus TETRACERUS.		
Tetracerus quadricornis		220

VI. Genus BOSELAPHUS.		
Boselaphus tragocamelus		225

Family II. ANTILOCAPRIDÆ.

Genus ANTILOCAPRA.		
Antilocapra americana		230
A. Antilocapra americana americana		232
B. " " mexicana		234
C. " " peninsularis		234

Family III. GIRAFFIDÆ.

Genus GIRAFFA.		
I. Giraffa reticulata		236
A. Giraffa reticulata reticulata		238
B. " " nigrescens		239
II. Giraffa camelopardalis		240
A. Giraffa camelopardalis camelopardalis		242
B. " " antiquorum		244
C. " " peralta		246
D. " " cottoni		247
E. " " rothschildi		248
F. " " subsp.		250
G. " " "		251
H. " " tippelskirchi		251
I. " " thornicrofti		252
J. " " congoënsis		253
K. " " infumata		253

Vol. III.
PAGE

L. <i>Giraffa camelopardalis angolensis</i>	254
M. " " <i>wardi</i>	255
N. " " <i>capensis</i>	256

II. Genus OKAPIA.

<i>Okapia johnstoni</i>	258
-------------------------	-----

Family IV. CERVIDÆ.

Subfamily i. MOSCHINÆ.

I. Genus MOSCHUS.

Vol. IV.
PAGE

<i>Moschus moschiferus</i>	4
A. <i>Moschus moschiferus moschiferus</i>	5
B. " " <i>sifanicus</i>	7
C. " " <i>parvipes</i>	8

Subfamily ii. CERVINÆ.

II. Genus MUNTIACUS.

I. <i>Muntiacus muntjak</i>	11
A. <i>Muntiacus muntjak muntjak</i>	14
B. " " <i>moschatus</i>	15
C. " " <i>bancanus</i>	15
D. " " <i>pleiharicus</i>	16
E. " " <i>rubidus</i>	16
F. " " <i>robinsoni</i>	18
G. " " <i>peninsulæ</i>	18
H. " " <i>curvostylis</i>	19
I. " " <i>grandicornis</i>	20
J. " " <i>vaginalis</i>	21
K. " " <i>aureus</i>	24
L. " " <i>malabaricus</i>	24
M. " " <i>subsp.</i>	25
II. <i>Muntiacus lacrymans</i>	25
A. <i>Muntiacus lacrymans lacrymans</i>	26
B. " " <i>slateri</i>	26
C. " " <i>teesdalei</i>	27
III. <i>Muntiacus reevesi</i>	27
A. <i>Muntiacus reevesi reevesi</i>	28
B. " " <i>pingshiangicus</i>	30
C. " " <i>micrurus</i>	30
IV. <i>Muntiacus sinensis</i>	31
V. " <i>feæ</i>	32
VI. " <i>crinifrons</i>	33

III. Genus ELAPHODUS.

<i>Elaphodus cephalophus</i>	34
A. <i>Elaphodus cephalophus cephalophus</i>	35
B. " " <i>michianus</i>	36
C. " " <i>fociensis</i>	38
D. " " <i>ichangensis</i>	39
V.	c

		Vol. IV. PAGE
IV. Genus D A M A.		
I. Dama dama		42
II. „ mesopotamica.		45
V. Genus C E R V U S.		
1. Subgenus A X I S.		
I. Cervus (Axis) axis		49
A. Cervus axis axis		51
B. „ „ ceylonensis		53
2. Subgenus H Y E L A P H U S.		
II. Cervus (Hyelaphus) porcinus		54
A. Cervus porcinus porcinus		56
B. „ „ annamiticus		58
III. Cervus (Hyelaphus) calamianensis		59
3. Subgenus R U S A.		
IV. Cervus (Rusa[?]) kuhli		61
V. „ (Rusa) alfredi		62
VI. „ „ timoriensis		63
A. Cervus timoriensis timoriensis		65
B. „ „ moluccensis		65
C. „ „ tunjuc		66
VII. Cervus (Rusa) tavistocki		70
VIII. „ „ unicolor		70
A. Cervus unicolor unicolor		74
B. „ „ equinus		78
C. „ „ brookei		80
D. „ „ swinhoei		81
E. „ „ dejeani		82
F. „ „ mariannus		83
G. „ „ philippinus		84
H. „ „ basilanensis		85
I. „ „ barandanus		85
J. „ „ francianus		85
K. „ „ nigricans		86
L. „ „ nigellus		87
M. „ „ boninensis		88
Other names applied to Rusine Deer		88
4. Subgenus R U C E R V U S.		
IX. Cervus (Rucervus) duvauceli		93
X. „ „ schomburgki		97
XI. „ „ eldi		100
A. Cervus eldi eldi		102
B. „ „ frontalis		104
C. „ „ siamensis		104

5. Subgenus Sika.

Vol. IV.
PAGE

XII. Cervus (Sika) nippon	107
A. Cervus nippon nippon	108
B. " " mantchuricus	110
XIII. Cervus (Sika) taiouanus	110
XIV. " " hortulorum	112
A. Cervus hortulorum hortulorum	114
B. " " kopschi	115
Incertæ Sedis	116

6. Subgenus CERVUS.

XV. Cervus elaphus	117
A. Cervus elaphus barbarus	120
B. " " corsicanus	121
C. " " hispanicus	121
D. " " elaphus	122
E. " " atlanticus	122
F. " " scoticus	123
G. " " hippelaphus	124
H. " " subsp.	125
I. " " maral	126
XVI. Cervus canadensis	129
A. Cervus canadensis canadensis	131
B. " " occidentalis	132
C. " " merriami	132
D. " " nannodes	133
E. " " xanthopygus	133
F. " " baicalensis	134
G. " " songaricus	136
H. " " biedermanni	137
I. " " wachei	137
J. " " bactrianus	138
K. " " wardi	138
XVII. Cervus yarkandensis	139
XVIII. " wallichi	141
A. Cervus wallichi wallichi	142
B. " " affinis	142
XIX. Cervus macneilli	145
A. Cervus macneilli macneilli	145
B. " " kansuensis	146
XX. Cervus cashmiriensis	146
XXI. " albirostris	149
Incertæ Sedis	150

VI. Genus ELAPHURUS.

Elaphurus davidianus	152
--------------------------------	-----

VII. Genus ODOCOILEUS.

I. Odocoileus virginianus	155
A. Odocoileus virginianus virginianus	159
B. " " borealis	160

	Vol. IV.
	PAGE
C. <i>Odocoileus virginianus macrourus</i>	161
D. " " <i>leucurus</i>	162
E. " " <i>louisianæ</i>	162
F. " " <i>osceola</i>	162
G. " " <i>texanus</i>	163
H. " " <i>couesi</i>	164
I. " " <i>battyi</i>	164
J. " " <i>mexicanus</i>	165
K. " " <i>sinaloæ</i>	166
L. " " <i>toltecus</i>	167
M. " " <i>acapulcensis</i>	167
N. " " <i>nelsoni</i>	168
O. " " <i>thomasi</i>	168
P. " " <i>truei</i>	169
Q. " " <i>costaricensis</i>	170
R. " " <i>nemoralis</i>	170
S. " " <i>rothschildi</i>	171
T. " " <i>chiriquensis</i>	172
U. " " <i>columbicus</i>	172
V. " " <i>lasiotis</i>	172
W. " " <i>gymnotis</i>	173
X. " " <i>margaritæ</i>	174
Y. " " <i>spinosus</i>	174
Z. " " <i>peruvianus</i>	175
II. <i>Odocoileus hemionus</i>	176
A. <i>Odocoileus hemionus hemionus</i>	178
B. " " <i>virgultus</i>	179
C. " " <i>californicus</i>	179
D. " " <i>cerrosensis</i>	180
E. " " <i>eremicus</i>	180
F. " " <i>peninsulæ</i>	181
G. " " <i>canus</i>	181
III. <i>Odocoileus columbianus</i>	182
A. <i>Odocoileus columbianus columbianus</i>	183
B. " " <i>sitkensis</i>	184
C. " " <i>scaphiotus</i>	184
D. " " <i>crooki</i>	185
Incertæ Sedis	185

VIII. Genus *BLASTOCERUS*.

I. <i>Blastocerus dichotomus</i>	186
II. " <i>bezoarticus</i>	188

IX. Genus *HIPPOCAMELUS*.

I. <i>Hippocamelus bisulcus</i>	193
II. " <i>antisensis</i>	196

X. Genus *MAZAMA*.

I. <i>Mazama americana</i>	199
A. <i>Mazama americana americana</i>	200
B. " " <i>jucunda</i>	202

	Vol. IV. PAGE
II. <i>Mazama superciliaris</i>	203
III. „ <i>zetta</i>	204
IV. „ <i>sheila</i>	205
V. „ <i>tema</i>	205
A. <i>Mazama tema tema</i>	206
B. „ „ <i>reperticia</i>	207
C. „ „ <i>cerasina</i>	207
VI. <i>Mazama bricenii</i>	207
VII. „ <i>rufina</i>	208
VIII. „ <i>simplicicornis</i>	208
A. <i>Mazama simplicicornis simplicicornis</i>	210
B. „ „ <i>mexianæ</i>	211
C. „ „ <i>citus</i>	212
IX. <i>Mazama tschudii</i>	212
X. „ <i>pandora</i>	213
XI. „ <i>nana</i>	213
<i>Incertæ Sedis</i>	214

XI. Genus PUDU.

1. Subgenus PUDU.

I. <i>Pudu pudu</i>	215
-------------------------------	-----

2. Subgenus PUDELLA.

II. <i>Pudu (Pudella) mephistophiles</i>	217
--	-----

XII. Genus CAPREOLUS.

I. <i>Capreolus capreolus</i>	219
A. <i>Capreolus capreolus capreolus</i>	221
B. „ „ <i>transsylvanicus</i>	222
C. „ „ <i>canus</i>	223
D. „ „ <i>thotti</i>	223
II. <i>Capreolus bedfordi</i>	224
A. <i>Capreolus bedfordi bedfordi</i>	225
B. „ „ <i>melanotis</i>	225
III. <i>Capreolus pygargus</i>	226
A. <i>Capreolus pygargus firghanicus</i>	227
B. „ „ <i>pygargus</i>	227
C. „ „ <i>tianschanicus</i>	228

XIII. Genus ALCES.

<i>Alces alces</i>	230
A. <i>Alces alces alces</i>	232
B. „ „ <i>bedfordiæ</i>	234
C. „ „ <i>americanus</i>	234
D. „ „ <i>columbæ</i>	236
E. „ „ <i>gigas</i>	237

XIV. Genus RANGIFER.		Vol. IV. PAGE
Rangifer tarandus		239
A. Rangifer tarandus tarandus		241
B. " " fennicus		243
C. " " platyrhynchus		243
D. " " sibiricus		244
E. " " pearsoni		244
F. " " phylarchus		245
G. " " caribou		246
H. " " sylvestris		248
I. " " terrænovæ		248
J. " " montanus		249
K. " " dawsoni		251
L. " " stonei		251
M. " " fortidens		251
N. " " osborni		252
O. " " granti		253
P. " " excelsifrons		253
Q. " " arcticus		254
R. " " grœnlandicus		256
S. " " pearyi		256

XV. Genus HYDROPOTES.

Hydropotes inermis	257
------------------------------	-----

Section B. TRAGULINA.

Family TRAGULIDÆ.

I. Genus TRAGULUS.

I. Tragulus meminna	262
II. Tragulus stanleyanus	265
A. Tragulus stanleyanus stanleyanus	265
B. " " perflavus	266
C. " " rufulus	267
D. " " formosus	267
III. Tragulus javanicus	268
A. Tragulus javanicus javanicus	268
B. " " napu	269
C. " " canescens	270
D. " " borneanus	270
E. " " nigricans	272
F. " " terutus	272
G. " " umbrinus	273
H. " " pretiosus	273
I. " " pretiellus	274
J. " " parallelus	274
K. " " lutescens	275
L. " " flavicollis	275
M. " " bancanus	275
N. " " nigricollis	276
O. " " nigrocinctus	276

Vol. IV.
PAGE

P.	Tragulus javanicus	sebucus	277
Q.	"	billitonus	277
R.	"	amoenus	278
S.	"	jugularis	278
T.	"	annæ	279
U.	"	bunguranensis	279
V.	"	batuanus	279
W.	"	versicolor	280
IV.	Tragulus kanchil		280
A.	Tragulus kanchil	kanchil	282
B.	"	longipes	282
C.	"	luteicollis	282
D.	"	subrufus	283
E.	"	rubeus	283
F.	"	fulvicollis	284
G.	"	carinatae	284
H.	"	brevipes	284
I.	"	pallidus	285
J.	"	fulviventer	285
K.	"	affinis	286
L.	"	ravulus	288
M.	"	lancavensis	288
N.	"	lampensis	288
O.	"	russeus	289
P.	"	russulus	289
Q.	"	hosei	290
R.	"	everetti	291
S.	"	pierrei	291
T.	"	pelandoc	292

II. Genus DORCATHERIUM.

Dorcatherium aquaticum	295
A. Dorcatherium aquaticum aquaticum	296
B. " " batesi	297
C. " " cottoni	298

Section C. TYLOPODA.

Family CAMELIDÆ.

I. Genus CAMELUS.

Camelus bactrianus	300
--------------------	-----

II. Genus LAMA.

I. Lama glama	302
A. Lama glama huanacus	302
B. " " cacsilensis	304
II. Lama vicugna	304

Section D. SUINA.

Family I. SUIDÆ.

Subfamily i. SUINÆ.

I. Genus SUS.

1. Subgenus SUS.

		Vol. IV. PAGE
I.	<i>Sus scrofa</i>	308
	A. <i>Sus scrofa scrofa</i>	313
	B. " " <i>meridionalis</i>	313
	C. " " <i>castilianus</i>	314
	D. " " <i>boeticus</i>	314
	E. " " <i>barbarus</i>	315
	F. " " <i>sennaarensis</i>	315
	G. " " <i>lybicus</i>	316
	H. " " <i>attila</i>	316
	I. " " <i>nigripes</i>	317
	J. " " <i>moupinensis</i>	317
II.	<i>Sus cristatus</i>	318
	A. <i>Sus cristatus cristatus</i>	319
	B. " " <i>jubatus</i>	320
	C. " " <i>jubatulus</i>	320
III.	<i>Sus leucomystax</i>	321
	A. <i>Sus leucomystax leucomystax</i>	322
	B. " " <i>taivanus</i>	322
IV.	<i>Sus vittatus</i>	323
	A. <i>Sus vittatus vittatus</i>	325
	B. " " <i>milleri</i>	325
	C. " " <i>floresianus</i>	325
	D. " " <i>andamanensis</i>	326
	E. " " <i>nicobaricus</i>	327
	F. " " <i>peninsularis</i>	327
	G. " " <i>rhionis</i>	327
	H. " " <i>andersoni</i>	328
	I. " " <i>niadensis</i>	328
	J. " " <i>babi</i>	328
	K. " " <i>natunensis</i>	329
	L. " " <i>mimus</i>	329
	M. " " <i>timoriensis</i>	329
V.	<i>Sus celebensis</i>	331
	A. <i>Sus celebensis celebensis</i>	332
	B. " " <i>nehringi</i>	333
	C. " " <i>philippensis</i>	333
	D. " " <i>minutus</i>	334
	E. " " <i>mindanensis</i>	334
	F. " " <i>amboinensis</i>	335
	G. " " <i>ceramicus</i>	335
	H. " " <i>borneensis</i>	336
	Incertæ Sedis	336
VI.	<i>Sus verrucosus</i>	336

VII. <i>Sus barbatus</i>	338
A. <i>Sus barbatus barbatus</i>	340
B. " " <i>gargantua</i>	341
C. " " <i>oi</i>	341
D. " " <i>ahænobarbus</i>	342
E. " " <i>balabacensis</i>	342
F. " " <i>calamianensis</i>	343

2. Subgenus PORCULA.

VIII. <i>Sus (Porcula) salvanus</i>	343
-------------------------------------	-----

II. Genus BABIRUSSA.

Babirussa <i>babyrussa</i>	345
A. <i>Babirussa babyrussa babyrussa</i>	345
B. " " <i>celebensis</i>	346

III. Genus POTAMOCHÆRUS.

I. <i>Potamochoerus larvatus</i>	349
A. <i>Potamochoerus larvatus larvatus</i>	350
B. " " <i>hova</i>	350
II. <i>Potamochoerus chœropotamus</i>	350
A. <i>Potamochoerus chœropotamus chœropotamus</i>	352
B. " " <i>maschona</i>	353
C. " " <i>dæmonis</i>	354
D. " " <i>nyasæ</i>	354
E. " " <i>johnstoni</i>	355
F. " " <i>keniæ</i>	356
III. <i>Potamochoerus hassama</i>	357
IV. " <i>porcus</i>	357
A. <i>Potamochoerus porcus porcus</i>	358
B. " " <i>pictus</i>	359
C. " " <i>ubangensis</i>	360
D. " " <i>albifrons</i>	361
E. " " <i>congius</i>	361
V. <i>Potamochoerus intermedius</i>	361

IV. Genus HYLOCHÆRUS.

<i>Hylochoerus meinertzhageni</i>	363
A. <i>Hylochoerus meinertzhageni meinertzhageni</i>	364
B. " " <i>rimator</i>	364

V. Genus PHACOCHÆRUS.

<i>Phacochærus æthiopicus</i>	366
A. <i>Phacochærus æthiopicus æthiopicus</i>	367
B. " " <i>sundevalli</i>	368
C. " " <i>massaicus</i>	370
D. " " <i>delamerei</i>	371
E. " " <i>æliani</i>	371
F. " " <i>fossor</i>	372
G. " " <i>bufo</i>	372
H. " " <i>africanus</i>	373

Subfamily ii. DICOTYLINÆ.

VI. Genus DICOTYLES.

		Vol. IV. PAGE
1. Subgenus DICOTYLES.		
I. <i>Dicotyles pecari</i>	.	375
A. <i>Dicotyles pecari pecari</i>	.	376
B. " " <i>ringens</i>	.	378
C. " " <i>spiradens</i>	.	378
2. Subgenus PECARI.		
II. <i>Dicotyles (Pecari) tajacu</i>	.	379
A. <i>Dicotyles tajacu tajacu</i>	.	380
B. " " <i>torvus</i>	.	382
C. " " <i>niger</i>	.	382
III. <i>Dicotyles (Pecari) angulatus</i>	.	383
A. <i>Dicotyles angulatus angulatus</i>	.	383
B. " " <i>sonoriensis</i>	.	384
C. " " <i>humeralis</i>	.	384
D. " " <i>crassus</i>	.	385
E. " " <i>yucatanensis</i>	.	385
F. " " <i>crusnigrum</i>	.	385
G. " " <i>nanus</i>	.	386

Family II. HIPPOPOTAMIDÆ.

I. Genus HIPPOPOTAMUS.

<i>Hippopotamus amphibius</i>	.	387
A. <i>Hippopotamus amphibius amphibius</i>	.	389
B. " " <i>tschadensis</i>	.	390
C. " " <i>kiboko</i>	.	391
D. " " <i>constrictus</i>	.	391
E. " " <i>australis</i>	.	392

II. Genus CHÆROPSIS.

<i>Chæropsis liberiensis</i>	.	393
------------------------------	---	-----

Suborder II. PERISSODACTYLA.

Family I. EQUIDÆ.

Genus EQUUS.

		Vol. V. PAGE
1. Subgenus EQUUS.		
I. <i>Equus caballus</i>	.	6
A. <i>Equus caballus caballus</i>	.	6
B. " " <i>przewalskii</i>	.	7
II. <i>Equus kiang</i>	.	8
III. " <i>hemionus</i>	.	11

IV. <i>Equus onager</i>	12
A. <i>Equus onager indicus</i>	12
B. " " <i>castaneus</i>	13
C. " " <i>hemippus</i>	14
D. " " <i>onager</i>	14

2. Subgenus DOLICHOHIPPIUS.

V. <i>Equus (Dolichohippus) grevyi</i>	17
A. <i>Equus grevyi grevyi</i>	18
B. " " <i>berberensis</i>	18

3. Subgenus HIPPOTIGRIS.

VI. <i>Equus (Hippotigris) quagga</i>	19
A. <i>Equus quagga quagga</i>	20
B. " " <i>burchelli</i>	21
C. " " <i>antiquorum</i>	22
D. " " <i>pococki</i>	23
E. " " <i>chapmani</i>	23
F. " " <i>wahlbergi</i>	24
G. " " <i>transvaalensis</i>	25
H. " " <i>selousi</i>	25
I. " " <i>boehmi</i>	26
J. " " <i>zambesiensis</i>	26
K. " " <i>crawshayi</i>	27
L. " " <i>cuninghamei</i>	28
M. " " <i>granti</i>	30
VII. <i>Equus (Hippotigris) foai</i>	32
VIII. " " <i>zebra</i>	34
A. <i>Equus zebra zebra</i>	35
B. " " <i>hartmannæ</i>	36

4. Subgenus ASINUS.

IX. <i>Equus (Asinus) asinus</i>	36
A. <i>Equus asinus asinus</i>	37
B. " " <i>africanus</i>	37
C. " " <i>tæniopus</i>	38
D. " " <i>somaliensis</i>	38

Family II. TAPIRIDÆ.

Genus TAPIRUS.

1. Subgenus ACROCODIA.

I. <i>Tapirus (Acrocodia) indicus</i>	39
---	----

2. Subgenus TAPIRUS.

II. <i>Tapirus terrestris</i>	41
A. <i>Tapirus terrestris terrestris</i>	42
B. " " <i>laurillardi</i>	43
C. " " <i>mexianæ</i>	43
D. " " <i>spegazzinii</i>	43
III. <i>Tapirus roulini</i>	44

	3. Subgenus TAPIRELLA.	Vol. V. PAGE
IV. Tapirus (Tapirella) bairdi		45
V. " " dowi		46

Family III. RHINOCEROTIDÆ.

Genus RHINOCEROS.

1. Subgenus RHINOCEROS.

I. Rhinoceros unicornis	47
II. " sondaicus	48

2. Subgenus DICERORHINUS.

III. Rhinoceros (Dicerorhinus) sumatrensis	49
A. Rhinoceros sumatrensis sumatrensis	50
B. " " blythi	50
C. " " lasiotis	51

3. Subgenus DICEROS.

IV. Rhinoceros (Diceros) bicornis	52
A. Rhinoceros bicornis bicornis	54
B. " " holmwoodi	54
C. " " somaliensis	55
D. " " cucullatus	55
V. Rhinoceros (Diceros) simus	55
A. Rhinoceros simus simus	56
B. " " cottoni	56

Suborder III. HYRACOIDEA.

Family PROCAVIIDÆ.

Genus PROCAVIA.

1. Subgenus PROCAVIA.

I. Procapia capensis	58
A. Procapia capensis capensis	60
B. " " windhuki	60
C. " " reuningi	60
D. " " marlothi	60
E. " " schultzei	61
F. " " waterbergensis	61
II. Procapia nigricans	61
III. " johnstoni	61
IV. " scioana	62
V. " erlangeri	62
VI. " alpini	62
VII. " kerstingi	62

	Vol. V. PAGE
VIII. <i>Procavia goslingi</i>	62
IX. " <i>syriaca</i>	63
A. <i>Procavia syriaca syriaca</i>	64
B. " " <i>jayakari</i>	64
X. <i>Procavia ruficeps</i>	64
XI. " <i>burtoni</i>	64
XII. " <i>sharica</i>	65
XIII. " <i>habessinica</i>	65
A. <i>Procavia habessinica habessinica</i>	66
B. " " <i>minor</i>	66
XIV. <i>Procavia ferruginea</i>	66
XV. " <i>pallida</i>	66
XVI. " <i>ruwenzorii</i>	66
XVII. " <i>mackinderi</i>	67
A. <i>Procavia mackinderi mackinderi</i>	67
B. " " <i>zelotes</i>	67
XVIII. <i>Procavia lopesi</i>	67
XIX. " <i>oweni</i>	67
XX. " <i>jacksoni</i>	68
XXI. " <i>dæmon</i>	68
XXII. " <i>matschiei</i>	68
XXIII. " <i>welwitschi</i>	68
XXIV. " <i>volkmanni</i>	69
XXV. " <i>latastei</i>	69
XXVI. " <i>brucei</i>	69
A. <i>Procavia brucei brucei</i>	69
B. " " <i>somalica</i>	70
C. " " <i>hindei</i>	70
D. " " <i>borana</i>	70
E. " " <i>ruddi</i>	71
F. " " <i>maculata</i>	71
G. " " <i>granti</i>	71
H. " " <i>manningi</i>	72
I. " " <i>thomasi</i>	72
J. " " <i>kempi</i>	72
K. " " <i>princeps</i>	73
XXVII. <i>Procavia pumila</i>	73
A. <i>Procavia pumila pumila</i>	73
B. " " <i>rudolfi</i>	73
XXVIII. <i>Procavia slatini</i>	74
XXIX. " <i>muenzeri</i>	74
XXX. " <i>frommi</i>	74
XXXI. " <i>schubotzi</i>	74

	Vol. V. PAGE
XXXII. <i>Procavia bounhioli</i>	74
XXXIII. „ <i>butleri</i>	74
XXXIV. „ <i>bamendæ</i>	75
XXXV. „ <i>kamerunensis</i>	75

2. Subgenus DENDROHYRAX.

XXXVI. <i>Procavia (Dendrohyrax) scheelei</i>	75
XXXVII. „ „ <i>valida</i>	75
XXXVIII. „ „ <i>emini</i>	76
A. <i>Procavia emini emini</i>	76
B. „ „ <i>latrator</i>	76
XXXIX. <i>Procavia (Dendrohyrax) arborea</i>	76
XL. „ „ <i>stuhlmanni</i>	77
XLI. „ „ <i>neumanni</i>	77
XLII. „ „ <i>dorsalis</i>	77
XLIII. „ „ <i>marmota</i>	78
XLIV. „ „ <i>bettoni</i>	78
XLV. „ „ <i>aschantiensis</i>	78
XLVI. „ „ <i>terricola</i>	78
XLVII. „ „ <i>adametzi</i>	78
A. <i>Procavia adametzi adametzi</i>	78
B. „ „ <i>zenkeri</i>	79
XLVIII. <i>Procavia (Dendrohyrax) tessmanni</i>	79
XLIX. „ „ <i>crawshayi</i>	79
A. <i>Procavia crawshayi crawshayi</i>	79
B. „ „ <i>laikipia</i>	79
L. <i>Procavia (Dendrohyrax) adolfi-friederici</i>	79
LI. „ „ <i>scheffleri</i>	80

Suborder IV. PROBOSCIDEA.

Family ELEPHANTIDÆ.

Genus ELEPHAS.

1. Subgenus ELEPHAS.

I. <i>Elephas maximus</i>	81
A. <i>Elephas maximus maximus</i>	82
B. „ „ <i>zeylanicus</i>	83
C. „ „ <i>sumatranus</i>	83
D. „ „ <i>hirsutus</i>	84

2. Subgenus LOXODONTA.				Vol. V.
				PAGE
II. Elephas (Loxodonta) africanus.	.	.	.	85
A. Elephas africanus capensis.	.	.	.	86
B. " " selousi.	.	.	.	87
C. " " cyclotis.	.	.	.	87
D. " " cottoni.	.	.	.	87
E. " " knochenhaueri.	.	.	.	88
F. " " peeli.	.	.	.	88
G. " " cavendishi.	.	.	.	89
H. " " oxyotis.	.	.	.	89
I. " " orleansi.	.	.	.	90
J. " " rothschildi.	.	.	.	91
K. " " albertensis.	.	.	.	91

CATALOGUE

OF

UNGULATES.

VOL. V.

SUBORDER II.—PERISSODACTYLA.

At the present day the "odd-toed" ungulates are much less numerously represented than the Artiodactyla, comprising, as they do, only three family groups, with a relatively small number of genera and species. In the middle and early part of the Tertiary epoch they were much more abundant. They are distinguished from the Artiodactyla by the following characters.

The toes, of which there may be four, three, or one on the fore-feet, but only three or one on the hind-feet, severally correspond, when three are present (fig. 1, B), to the second, third, and fourth of the typical pentadactyle series, and to the third when the number is reduced to one; the additional digit sometimes retained in the fore-limb representing the fifth of the full series; in all cases the toe corresponding to the third of the typical series is symmetrical in itself, and larger than the second and fourth, when these are retained. The number of the combined dorsal and lumbar vertebræ never falls below twenty-two, and, in existing forms, is usually twenty-three. An alisphenoid canal traverses the bones of the base of the hind part of the skull, on the upper aspect of which there is a more or less marked expansion of the superior extremities of the nasal bones. Very generally the premolar teeth, with the exception of the first, are of the

same complex type as the molars (fig. 3, p. 5), and the last lower molar commonly carries only two lobes, or, if it has three, the hindmost is not developed in the corresponding tooth of the premolar series. The femur carries a large, curved "third trochanter" for the insertion of one of the gluteal muscles. In the tarsus the upper surface of the astragalus is pulley-like, for articulation with deep grooves in the lower end of the tibia, but its lower aspect (unlike that of the

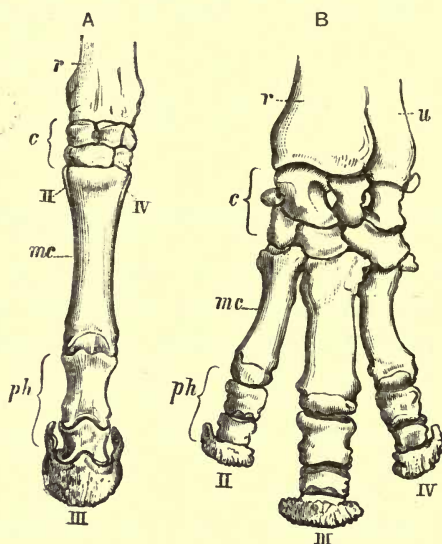


FIG. 1.—BONES OF THE LEFT FORE-FOOT OF A HORSE (A)
AND OF A RHINOCEROS (B).

r, radius; *u*, ulna; *c*, carpus (forming the so-called "knee" of the Horse); *mc*, metacarpus (constituting the "cannon-bone" in the Horse); *ph*, phalanges, or toe-bones. II, III, IV, the toes corresponding to those so numbered in the typical series of five, the lateral metacarpals being represented in A by the "splint-bones" at the upper end of the median metacarpal.

Artiodactyla) is flattened, and articulates to a much greater extent with the navicular than with the cuboid, which is less developed than in the even-toed group. The stomach is simple, and the cæcum large and capacious. The placenta is diffuse and devoid of cotyledons; the teats are invariably inguinal in position; and the liver lacks a gall-bladder. When cranial appendages are present they are quite different in structure from those of the Artiodactyla.

The existing representatives of the suborder naturally arrange themselves in the three following families:—

- A. No cranial appendages; a full series of front teeth.
 - a. A single functional digit on each foot; * cheek-teeth tall-crowned (hypsodont) and complex. Europe,† Asia (exclusive of almost the whole of the Oriental region), and Africa..... *Equidæ*.
 - b. Four front and three hind toes; cheek-teeth low-crowned (brachyodont) and simple. Malaya and Central and South America... *Tapiridæ*.
- B. Cranial appendages, in the form of one or two solid conical horns,‡ placed in the median line; front teeth incomplete or wanting; feet three-toed. India, Malaya, and Ethiopian Africa..... *Rhinocerotidæ*.

FAMILY I.—EQUIDÆ.

Long-headed, long-limbed, and slenderly built hypsodont perissodactyles, with not more than three toes to each foot, of which the middle one is stouter than the laterals, and in the existing species is the only one present, the lateral pair being represented solely by the splint-bones (fig. 1, A, II, IV); hoofs compact and box-like; skull long and low, with elongated nasals, and the orbits encircled by bone (fig. 2); central valleys of the tall-crowned cheek-teeth completely filled with cement, and their enamel thrown into complex folds (fig. 3); upper premolars as complex as, and rather larger than the molars; summits of the incisors with the enamel infolded in a pocket-like manner; ulna and fibula incomplete at their lower ends, and the mesocuneiform bone of the tarsus welded with the entocuneiform. In females the canines are small or wanting.

All the existing forms may be included in the single genus *Equus*, which has a range over North-eastern Europe (now extinct there), Asia Minor and Syria, Persia, Baluchistan, and the deserts of North-western and Central India, Central Asia, and Africa south of the Sahara. During the

* Three toes in many extinct forms.

† Now exterminated in a wild condition; in the Tertiary period the range included America.

‡ Absent in certain extinct forms, and said to be absent in the female of the recent *Rhinoceros sondaicus*.

Tertiary epoch the range included the greater part of Europe and North America, and, after its union with the northern



FIG. 2.—SKULL OF FEMALE TARPAN, OR MONGOLIAN WILD HORSE (*Equus caballus przewalskii*), Gobi Desert, Mongolia.

Presented by the Duke of Bedford, K.G. (7. 5. 15. 1).

half of the New World, South America. The group probably originated in Eastern Asia, whence it spread in one direction to Western Europe, and in the other to North America.

Genus EQUUS.

Equus, *Linn. Syst. Nat.* ed. 10, vol. i, p. 73, 1758, ed. 12, vol. i, p. 100, 1766; *Griffith, Animal Kingdom*, vol. iii, p. 340, vol. v, p. 294, 1827; *Flower and Lydekker, Study of Mammals*, p. 381, 1891; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 282, 1900.

Dentition: $i. \frac{3}{3}$, $c. \frac{1}{1}$, $p. \frac{(3-4)}{3}$, $m. \frac{3}{3}$.

A single toe on each foot, with remnants of the lateral (2nd and 4th) metacarpals and metatarsals in the shape of splint-bones (fig 1, A); anterior pillar of upper cheek-teeth (fig. 3, *p*) united by a narrow, enamel-bordered neck to the dentine of the main body of the tooth; first upper premolar, when present, considerably smaller than the others, and but rarely developed in existing species, in which it is commonly known as the "wolf-tooth"; slits bordering nasal bones of

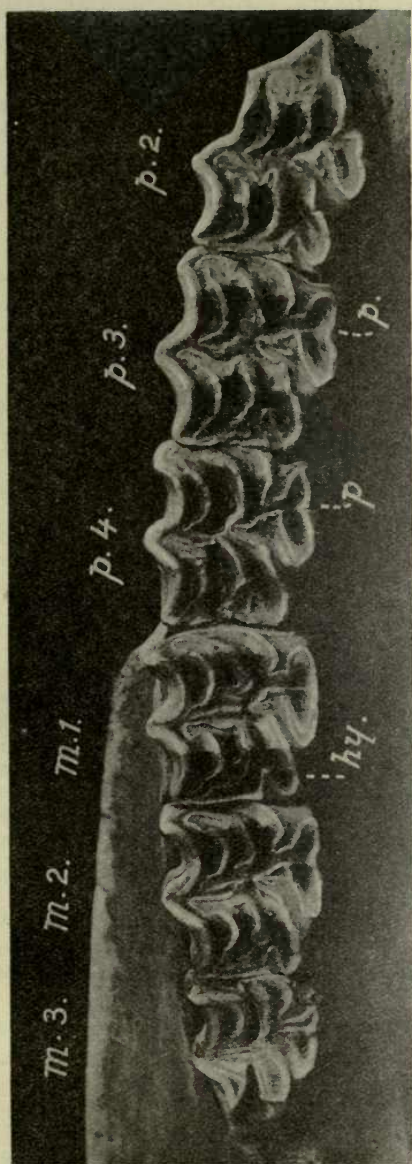


FIG. 3.—THE RIGHT UPPER CHEEK-TEETH OF THE TARPAN, OR MONGOLIAN WILD HORSE
(*Equus caballus przewalskii*).

p.2—p.4, premolars; m.1—m.3, molars; p, anterior inner pillar; hy, posterior inner pillar, or hypocone.

From Lydekker, *The Horse and its Relatives*, 1912, pl. v, fig. 1.

skull short (fig. 2); ears more or less elongated; tail long, in wild forms terminally tufted, or more or less hairy throughout its length; a bare callosity, or "chestnut" on the inner side of each fore-leg above the "knee" (carpus).

Distribution, at the present day, co-extensive with that of the family.

The genus is divisible into the following subgeneric groups:—

- A. Head and neck (like body) devoid of stripes.
 - a. Ears relatively short; hoofs broad..... *Equus*.
 - b. Ears longer; hoofs narrower..... *Asinus*.
- B. Head and neck (and in most cases the body) marked with numerous dark and light stripes, which are transverse on the neck (and body).
 - a. Ears very broad and densely haired internally *Dolichohippus*.
 - b. Ears narrow and sparsely haired internally..... *Hippotigris*.

1. SUBGENUS **EQUUS**.

Equus, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xx, p. 192, 1841; *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 304, 1902; *Heller, Smithson. Misc. Collect.* vol. lx, no. 8, p. 2, 1912.

I. **EQUUS CABALLUS**.

Equus caballus, *Linn. Syst. Nat.* ed. 10, vol. i, p. 73, 1758, ed. 12, vol. i, p. 100, 1766; *Griffith, Animal Kingdom*, vol. iii, p. 341, vol. v, p. 294, 1827; *Gray, Cat. Ungulata Brit. Mus.* p. 263, 1852; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 395, 1884; *Flower, The Horse*, p. 72, 1891; *Ridgeway, Thoroughbred Horse*, p. 12, 1905; *Lydekker, Horse and its Relatives*, p. 103, 1912.

A.—**Equus caballus caballus**.

Equus caballus typicus, *Lydekker, Proc. Zool. Soc.* 1904, p. 432, *Horse and its Relatives*, p. 176, 1912.

Including:—

Equus ferus, *Pallas, Zoogr. Rosso-Asiat.* vol. i, p. 260, 1811.

Equus gmelini, *Antonius, Naturwiss. Wochenschrift*, ser. 2, vol. xi, p. 516, 1912.

Typical locality Scandinavia, with the possible exception of the Arab and its derivatives, this race is taken to include all domesticated breeds, together with the half-bred so-called

tarpan of the Russian steppes (now extinct), through which there was in all probability a complete gradation into the pure-bred tarpan of Mongolia, constituting the next race.

The tail is usually well haired up to the root, and the callosities on the hind-limbs are in most cases well developed.

The specimens of domesticated horses in the collection do not come within the purview of this Catalogue.

B.—*Equus caballus przewalskii* (Figs. 2-4).

Equus przewalskii, Poliakow, *Izvestia Soc. Imp. Russ. Geogr.* 1881, p. 1, pls. i and ii; Morgan, *Ann. Mag. Nat. Hist.* ser. 6, vol. viii, p. 16, 1881; Noack, *Zool. Garten*, vol. xxv, p. 331, 1884; Kobelt, *ibid.* vol. xxxii, p. 358, 1887; Trouessart, *La Nature*, vol. xviii, p. 369, 1890, *Le Naturaliste*, 1902, p. 209; Flower, *The Horse*, p. 78, 1891; Flower and Lydekker, *Study of Mammals*, p. 383, 1891; Grevé, *Zool. Garten*, vol. xlii, 1901; Tscherski, *Mem. Ac. Sci. St. Pétersb.* vol. xl, p. 291, 1892; Prazák, *Wild Horses*, vol. i, p. 4, 1898; Sclater, *Proc. Zool. Soc.* 1901, vol. i, pp. 35 and 166, 1902, vol. i, p. 137, pl. xiii; Oustalet, *Bull. Mus. Paris*, 1902, p. 244; Tichomirow, *Zool. Anz.* vol. xxv, p. 344, 1902; Noack, *ibid.* pp. 135 and 165, 1902; Beddard, *Cambridge Nat. Hist.*, *Mamm.* p. 241, 1902; Salensky, *Wissenschaftl. Result. Przewalski Reisen*, *Zool. Theil.* vol. i, pt. 2, p. 1, pls. i-iv, 1902; Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 307, 1902; Matschie, *Naturwiss. Wochenschrift*, ser. 2, vol. ii, p. 581, 1903, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 309, 1909; Ridgeway, *Thoroughbred Horse*, p. 26, 1905; Griffini, *Le Zebre*, p. 13, (1912) 1913.

Equus caballus przewalskii, Lydekker, *Field*, vol. c, p. 680, 1902, *Game Animals of India*, etc. p. 43, 1907, *Horse and its Relatives*, p. 107, 1912; Trouessart, *Cat. Mamm.*, Suppl. p. 644, 1904; Heller, *Smithson. Misc. Collect.* vol. lx, no. 8, p. 2, 1912.

Equus hagenbecki, Matschie, *Naturwiss. Wochenschrift*, ser. 2, vol. ii, p. 581, 1903, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 309, 1909.

Equus ferus, Antonius, *Naturwiss. Wochenschrift*, ser. 2, vol. xi, p. 516, 1912, *nec Pallas* (?).

Typical locality Eastern Gobi, Zungaria.

2. 1. 31. 1. Skull and skin, young. Border of the Gobi; collected by Herr C. Hagenbeck. Purchased, 1902.

2. 1. 31. 2. Skull and skin, young. Same locality and collector. Same history.

2. 9. 25. 1. Skeleton, female. Same locality and collector. Presented by the Hon. Walter Rothschild, 1902.

2. 9. 25. 2. Skull, female. Same locality and collector.
Same history.

5. 8. 14. 1. Skull and skin, young. From a foal born
 at Woburn, Beds.

Presented by the Duke of Bedford, K.G., 1905.

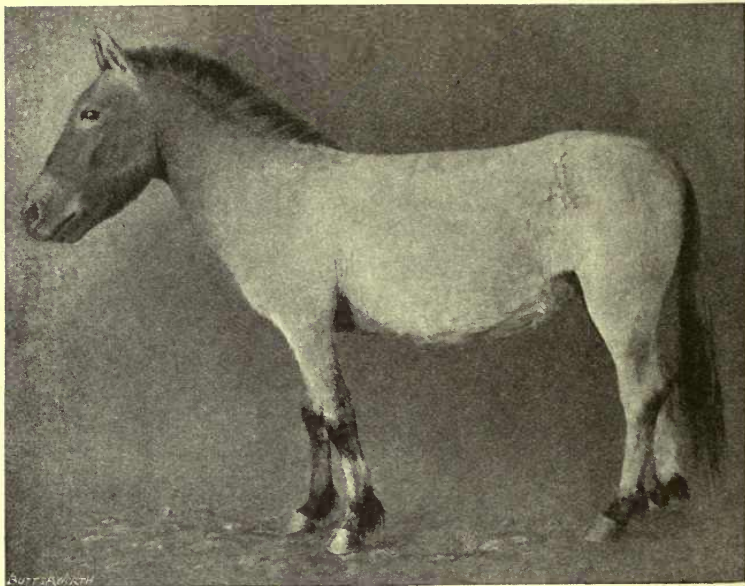


FIG. 4.—FEMALE TARPAN, OR MONGOLIAN WILD HORSE
 (*Equus caballus przewalskii*), Gobi Desert, Mongolia.

Presented by the Duke of Bedford, K.G. (7. 5. 15. 1).

7. 5. 15. 2. Skeleton, male, mounted, and skin. Border
 of the Gobi; died at Woburn. *Same donor, 1907.*

7. 5. 15. 1. Skin, female, mounted (fig. 4), and skeleton.
 Same locality. *Same donor, 1907.*

II. EQUUS KIANG (Fig. 5).

Equus kiang, Moorcroft, *Travels in Ladak*, vol. i, p. 312, 1842;
Hodgson, Journ. Asiat. Soc. Bengal, vol. xi, p. 286, 1842; Gray,
Proc. Zool. Soc. 1849, p. 29; Hay, *ibid*, 1850, p. 353, pl. lxxiii;
Matschie, Sitzber. Ges. nat. Freunde, 1893, p. 208, *Monatshefte*
naturwiss. Unterricht Schulgatt. vol. ii, p. 306, 1909; Pocock,
Ann. Mag. Nat. Hist. ser. 8, vol. iv, p. 526, 1909; Lydekker,

- Horse and its Relatives*, p. 178, 1912; *Griffini, Le Zebre*, p. 16, (1912) 1913.
- Asinus equioides*, *Hodgson, Journ. Asiat. Soc. Bengal*, vol. xi, p. 287, 1842.
- Asinus polyodon*, *Hodgson, Calcutta Journ. Nat. Hist.* vol. vii, p. 469, pl. vi, 1847, vol. viii, p. 98, 1848.
- Equus hemionus*, *Walker, Journ. Asiat. Soc. Bengal*, vol. xvii, pt. 2, p. 1, pl. i, 1848; *Cunningham, Ladak*, p. 195, pl. vi, 1854; *Blyth, Journ. Asiat. Soc. Bengal*, vol. xxviii, p. 229, 1859, *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 136, 1863; *Strachey, Journ. Asiat. Soc. Bengal*, vol. xxix, p. 136, 1860; *Sterndale, Mamm. India*, p. 401, 1884; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* p. 412, 1884; *Flower and Lydekker, Study of Mammals*, p. 383, 1891; *Blanford, Fauna Brit. India, Mamm.* p. 470, 1891 (*partim*); *Beddard, Cambridge Nat. Hist., Mamm.* p. 242, 1902; *Griffini, Le Zebre*, p. 16, (1912) 1913.
- Asinus kyang*, *Gray, Cat. Ungulata Brit. Mus.* p. 272, 1852, *Cat. Carnivora, etc. Brit. Mus.* p. 271, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 37, 1873; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 274, 1862; *partim*.
- Asinus kyang*, *Kinloch, Large Game Shooting in Thibet*, p. 13, 1869.
- Equus hemionus var. kyang*, *W. L. Sclater, Cat. Mamm. Ind. Mus.* pt. ii, p. 199, 1891.
- Equus hemionus kyang*, *Lydekker, Proc. Zool. Soc.* 1904, vol. i, p. 432, pl. xxviii, *Novit. Zool.* vol. xi, p. 585, 1904, *Game Animals of India*, p. 43, 1907.
- Equus equioides*, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.
- Asinus kyang*, *Heller, Smithsonian. Misc. Collect.* vol. lx, no. 8, p. 2, 1912.

KIANG.

Typical locality Ladak.

48. 6. 11. 16 (976, a). Skull. Probably Hundes district of Tibet. Type of *E. polyodon*.

Presented by B. H. Hodgson, Esq., 1848.

48. 6. 11. 17 (976, b). Skull. Same locality.

Same history.

48. 6. 11. 18 (976, c). Skull. Same locality.

Same history.

50. 4. 11. 1. Skin, immature, mounted, and skull. Ladak. *Presented by the Earl of Gifford*, 1850.

51. 7. 16. 3. Skin. Ladak; collected by Gen. Sir J. Strachey. *Presented by the Hon. East India Co.*, 1851.

51. 7. 16. 4 (976, g). Skull. Same locality and collector.

Same history.

51. 7. 16. 5 (976, f, bis.). Skull. Same locality and collector.

Same history.

55. 7. 16. 3. Skin. Hundes.

Presented by H.H. the Maharaja Dhuleep Sing, 1855.

58. 6. 24. 119 (976, *h*). Skull and skin, immature. Upper
Sikhim.

Presented by B. H. Hodgson, Esq., 1858.

58. 9. 24. 150 (976, *g*). Skull. Same locality.

Same history.

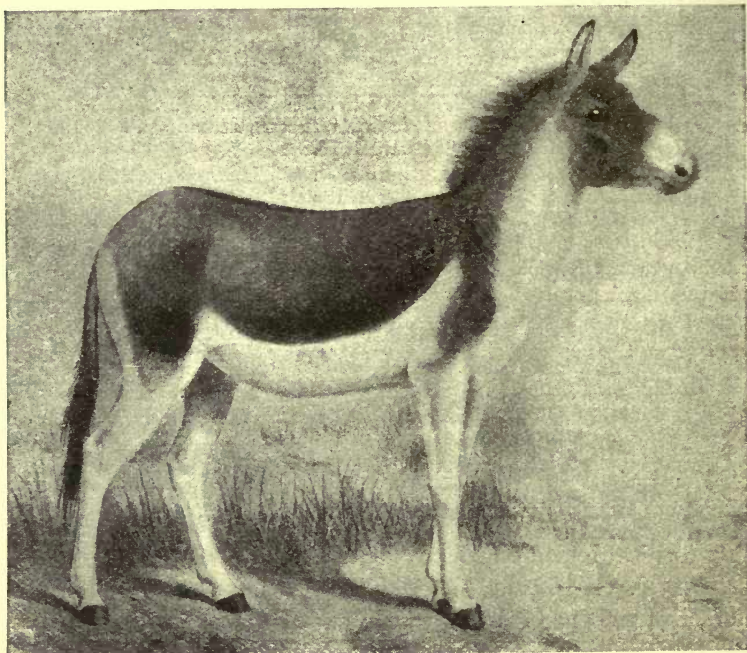


FIG. 5.—FEMALE KIANG (*Equus kiang*).

From a specimen, in summer coat, in the Duke of Bedford's collection at Woburn Park, said to have come from Ladak.

From Lydekker, *Proc. Zool. Soc.* 1904, vol. i, pl. xxviii.

976, *e*. Skeleton. Probably Ladak.

Purchased (Brandt).

60. 5. 4. 77. Skin, mounted. Tibet? (probably Ladak).

Transferred from India Museum, 1860.

79. 11. 21. 194 (976, *i*). Skull. Ladak; collected by
Gen. Sir J. Strachey.

Same history, 1879.

79. 11. 21. 182 (976, *j*). Skull. Hundes (?); collected
by B. H. Hodgson, Esq.

Same history.

79. 11. 21. 258. Skin. Same locality and collector.
Same history.
91. 10. 7. 176. Skin. Sikhim; collected by L. Mandelli, Esq.
Presented by Dr. W. T. Blanford, 1891.
94. 2. 8. 3. Skull. Koko Nor.
Presented by St. George Littledale, Esq., 1894.
99. 6. 23. 3. Skin, mounted. Ladak.
Purchased (Gerrard), 1899.
5. 6. 20. 1. Skull and skin. Near Lhasa.
Presented by Lieut.-Col. G. R. Macdonald, 1905.
12. 5. 7. 1. Skull. Ebi Nor.
Presented by J. H. Miller, Esq., 1912.

III. EQUUS HEMIONUS.

- Equus hemionus*, Pallas, *Nov. Comm. Petrop.* vol. xix, p. 397, pl. vii, 1775; Schreber, *Säugethiere*, pl. cccxi, 1778; F. Cuvier, *Hist. Nat. Mamm.* pl. ccxv, 1823; Griffith, *Animal Kingdom*, vol. iii, p. 342, vol. v, p. 259, 1827; Lesson, *Nouv. Tabl. Règne Anim.* p. 166, 1842; Radde, *Reisen Öst.-Siberien*, vol. i, p. 293, 1861; Severtzow, *Ann. Mag. Nat. Hist.* ser. 4, vol. xviii, p. 378, 1867; George, *Ann. Sci. Nat. Zool.* vol. xii, p. 5, pls. i-v, 1869; Thomas, *Trans. Linn. Soc.* ser. 2, vol. v, p. 61, 1889; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 412, 1884 (*partim*); Radde and Walther, *Ergebnisse Exped. Transkasp.* vol. i, p. 1058, 1890; W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 198, 1901 (*partim*); Flower and Lydekker, *Study of Mammals*, p. 383, 1901 (*partim*); Blanford, *Fauna Brit. India, Mamm.* p. 470, 1891 (*partim*); Lydekker, *Proc. Zool. Soc.* 1904, vol. i, p. 432, pl. xxvii, *Novit. Zool.* vol. xi, p. 584, 1904, *Game Animals of India, etc.* p. 43, 1907, *Horse and its Relatives*, p. 180, 1912; Ridgeway, *Thoroughbred Horse*, p. 44, 1905; Elliot, *Cat. Mamm. Field Mus. (Field Mus. Zool. Pub.* vol. viii) p. 104, 1907; Pocock, *Ann. Mag. Nat. Hist.* ser. 8, vol. iv, p. 526, 1909; Griffini, *Le Zebre*, p. 16, (1912) 1913.
- Asinus hemionus*, H. Smith, *Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 317, pl. xx, 1841; Gray, *Cat. Ungulata Brit. Mus.* p. 272, 1852, *Cat. Carnivora, etc., Brit. Mus.* p. 271, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 37, 1873; Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 274, 1862, *partim*.
- Equus hemionus var. typicus*, W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 198, 1891.
- Equus (Asinus) hemionus*, Trouessart, *Cat. Mamm.* p. 794, 1898.
- Equus hemionus hemionus*, Lydekker, *Novit. Zool.* vol. xi, p. 586, 1904.

CHIGETAI; KULAN.

Typical locality Altai.

IV. EQUUS ONAGER.

Equus onager, Pallas, *Acta Ac. Petrop.* 1777, p. 254, pl. xi; Schreber, *Säugethiere*, pl. ccciii, 1778; I. Geoffroy, *C.-R. Ac. Sci. Paris*, vol. xli, pp. 1220 and 1223, 1855; Blyth, *Journ. Asiat. Soc. Bengal*, vol. xxviii, p. 229, 1859, *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 135, 1863; Jerdon, *Mamm. India*, p. 236, 1866; Stoliczka, *Journ. Asiat. Soc. Bengal*, vol. xli, pt. 2, p. 228, 1872; Sterndale, *Mamm. India*, p. 399, 1884; Flower and Lydekker, *Study of Mammals*, p. 385, 1891; Matschie, *Sitzber. Ges. nat. Freunde*, 1893, p. 208; Beddard, *Cambridge Nat. Hist.*, *Mamm.* p. 242, 1902; Lydekker, *Novit. Zool.* vol. xi, p. 587, 1904, *Game Animals of India*, etc. p. 48, 1907, *Horse and its Relatives*, p. 181, 1912; Ridgeway, *Thoroughbred Horse*, p. 46, 1905; Pocock, *Ann. Mag. Nat. Hist.* ser. 8, vol. iv, p. 526, 1909; Griffini, *Le Zebre*, p. 16, (1912) 1913.

Equus hemionus, I. Geoffroy, *Ann. Mus. Paris*, vol. iv, p. 77, p. 7, pl. viii, 1804; F. Cuvier, *Hist. Nat. Mamm.* vol. iv, pls. 321 and 322, 1823; Sykes, *Proc. Zool. Soc.* 1837, p. 91; Hutton and Blyth, *Journ. Asiat. Soc. Bengal*, vol. xv, p. 145, 1846; Gray, *Proc. Zool. Soc.* 1849, p. 29, Knowsley *Menagerie*, pl. liii, 1850; Blyth, *Journ. Asiat. Soc. Bengal*, vol. xxvi, p. 239, 1858; Blanford, *Eastern Persia*, vol. ii, p. 84, 1876, *Fauna Brit. India*, *Mamm.* p. 470, 1891 (*partim*).

Asinus onager, H. Smith, *Jardine's Naturalist's Libr.*, *Mamm.* vol. xii, p. 307, pl. xviii, 1841; Gray, *Cat. Ungulata Brit. Mus.* p. 269, 1852, *Cat. Carnivora*, etc. *Brit. Mus.* p. 269, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 37, 1873; Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 273, 1862; Murray, *Zool. Sind.* p. 54, 1884; Matschie, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.

Equus khur, Lesson, *Mammalogie*, p. 347, 1827.

Equus (Asinus) onager, Trouessart, *Cat. Mamm.* p. 795, 1884.

ONAGER; GHOR-KHAR; GHUR; (?) KULAN.

Typical locality Kasbin, north-western Persia, near the borders of the Caspian.

A.—*Equus onager indicus*.

Asinus indicus, Selater, *Proc. Zool. Soc.* 1862, p. 163, *nomen nudum*; Matschie, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.

Equus hemionus var. indicus, W. L. Selater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 199, 1891.

Equus indicus, Matschie, *Sitzber. Ges. nat. Freunde*, 1893, p. 208.

Equus onager indicus, Lydekker, *Novit. Zool.* vol. xi, p. 588, pl. xvii, 1904, *Game Animals of India*, etc. p. 48, 1907, *Horse and its Relatives*, p. 182, 1912.

GHOR-KHAR.

Typical locality (may be taken to be) Kach.

46. 1. 10. 3. Skin, mounted. Kach.

Presented by the Earl of Derby, 1846.

46. 1. 10. 5 (705, *a*). Skeleton, imperfect, of the same individual as the last.

Same history.

85. 6. 13. 4. Skull, young. Thurr Parkur district, Kach.

Presented by the Karachi Museum, 1885.

91. 5. 13. 1. Skull and skins. Sham Plains, eastern Baluchistan.

Presented by Dr. W. T. Blanford, 1891.

B.—*Equus onager castaneus* (Fig. 6).

Equus onager castaneus, *Lydekker, Novit. Zool.* vol. xi, p. 590, pl. xviii, 1904, *Horse and its Relatives*, p. 182, 1912; *Griffini, Le Zebre*, p. 16, (1912) 1913.

Equus castaneus, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.

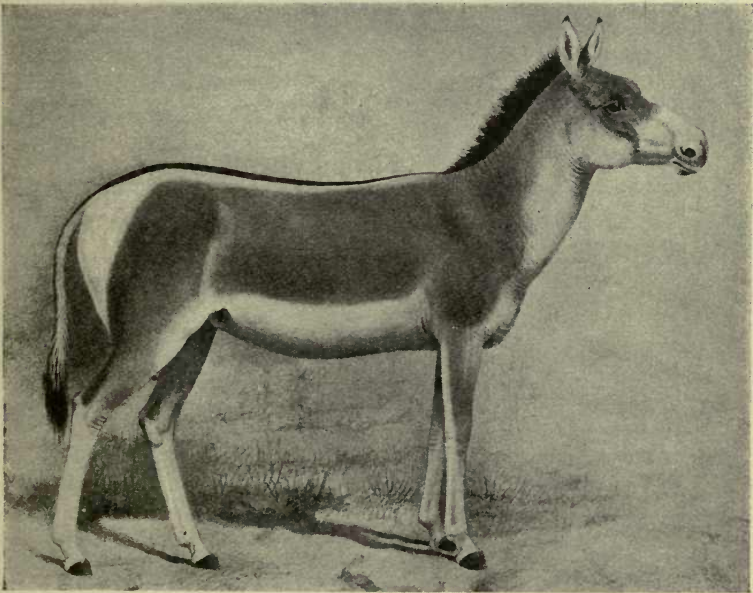


FIG. 6.—FEMALE KOBDO ONAGER (*Equus onager castaneus*).

From the type-specimen in the Duke of Bedford's collection at Woburn Park, said to have come from Kirghis-Nor, Kobdo, Western Mongolia.

From *Lydekker, Novitates Zoologicae*, 1904, vol. xi, pl. xviii.

Typical locality apparently Kirghis-Nor, Kobdo, western Mongolia.

Type a living specimen (1904) in the collection of the Duke of Bedford, at Woburn Abbey, Beds (fig. 6).

C.—*Equus onager hemippus*.

Equus hemippus, *I. Geoffroy*, *C.-R. Ac. Sci. Paris*, vol. xli, pp. 1214 and 1220, 1855; *Rev. Zool.* vol. vii, p. 593, 1855; *George*, *Ann. Sci. Nat., Zool.* vol. xii, p. 5, 1869; *Milne-Edwards*, *Arch. Mus. Paris*, vol. v, *Bull.* p. 39, pl. iv, 1869; *Flower and Lydekker*, *Study of Mammals*, p. 383, 1891; *Matschie*, *Sitzber. Ges. nat. Freunde*, 1893, p. 208; *Beddard*, *Cambridge Nat. Hist., Mamm.* p. 242, 1902; *Pocock*, *Ann. Mag. Nat. Hist. ser. 8*, vol. iv, p. 526, 1909; *Griffini*, *Le Zebre*, p. 16, (1912) 1913.

Asinus hamar, *H. Smith*, *Jardine's Naturalist's Libr., Mamm.* vol. xii, pl. xix, 1841.

Equus hamar, *Matschie*, *Sitzber. Ges. nat. Freunde*, 1893, p. 208, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.

Equus (Asinus) hemippus, *Trouessart*, *Cat. Mamm.* p. 796, 1898.

Equus onager hemippus, *Lydekker*, *Novit. Zool.* vol. xi, p. 591, 1904, *Horse and its Relatives*, p. 184, 1912; *Ridgeway*, *Thoroughbred Horse*, p. 46, 1905.

Asinus hemippus, *Matschie*, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1900.

Typical locality Syria.

976, c. Skin, immature (8 months). Mesopotamia.

Presented by J. H. Layard, Esq., before 1852.

67. 12. 3. 1 (705, b). Skeleton and skin. Syria.

Purchased (Zoological Society), 1867.

D.—*Equus onager onager*.

Equus onager var. typicus, *W. L. Sclater*, *Cat. Mamm. Ind. Mus.* pt. ii, p. 198, 1891.

Equus onager onager, *Lydekker*, *Novit. Zool.* vol. xi, p. 591, pl. xix, 1904.

Equus onager typicus, *Lydekker*, *Horse and its Relatives*, p. 183, 1912.

ONAGER; GHUR.

Typical locality Kasbin, north-western Persia.

10. 7. 12. 1. Skin. Yezd, Persia. *Presented by Messrs. R. C. Barker and E. J. Blackman, 1910.*

10. 7. 12. 2. A similar specimen. Same locality.
Same history.
10. 7. 12. 3. Another similar specimen. Same locality.
Same history.

2. SUBGENUS **DOLICHOHIPPIUS.**

Megacephalon, *Hilzheimer, Abh. Senckenberg. Ges.* vol. xxxi, p. 95, 1912; nec Gray, 1846.

Dolichohippus, *Heller, Smithsonian. Misc. Collect.* vol. lx, no. 8, p. 1, 1912.

Ludolphozecora, *Griffini, Natura*, vol. iv, p. 13, 1913.

Ears large, broad, and thickly haired internally; coat marked with numerous narrow black and white stripes, which



FIG. 7.—HEAD OF GRÉVY'S ZEBRA (*Equus [Dolichohippus] grevyi*).

[The original photograph, found among Mr. Lydekker's paper, is marked "Tana River 1893, Mrs. J. D. Neumann."]

From Lydekker, *The Horse and its Relatives*, 1912, pl. xvi, fig. 2.

form upwardly directed concavities on the rump; chestnuts wanting on hind-limbs, usually small on front limbs; hoofs

large and somewhat elongated; skull long and narrow, especially the muzzle, in which the diastema is equal to the combined basal length of the last four cheek-teeth; lambdoid crest of occiput produced behind line of condyles, and extending almost on a level with the auditory meatus, instead of being vertically above it as in the subgenera *Equus* and *Hippotigris*; lachrymal large, forming one-third of orbital



FIG. 8.—HEAD OF GRÉVY'S ZEBRA (*Equus* [*Dolichohippus*] *grevyi*).

rim; ascending process of premaxilla narrow; palatal foramina long and narrow; brain-case shallow and depressed.

Heller remarks that in general shape the skull approximates to that of *E. caballus*, but that in its extreme elongation and narrowness it differs from all the other members of the family; the horse occupying in this respect a position intermediate between the present species on the one hand and the quagga, zebra, and ass on the other.

The range is restricted to north-eastern and eastern Ethiopian Africa.

V. EQUUS (DOLICHOHIPPIUS) GREVYI (Figs. 7–9).

Equus grevyi, Oustalet, *La Nature*, vol. x, p. 12, 1882; *Sclater*, *Proc. Zool. Soc.* 1882, p. 721, 1890, p. 413; *Flower*, *The Horse*, p. 88, 1891; *Flower and Lydekker*, *Study of Mammals*, p. 387, 1891; *Pocock*, *Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 48, 1897, ser. 7, vol. x, p. 305 and 308, 1902; *Bryden*, *Nature and Sport in S. Africa*, p. 168, 1897; *Prazák*, *Wild Horses*, vol. i, pls. vi–viii, 1898; *Neumann*, *Great and Small Game of Africa*, p. 84, 1899;

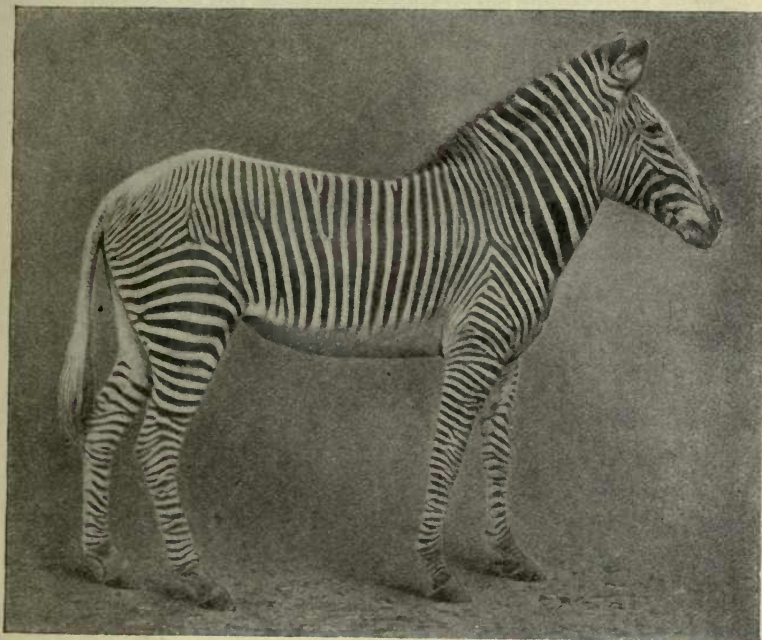


FIG. 9.—GRÉVY'S ZEBRA (*Equus* [*Dolichohippus*] *grevyi*).

Swayne, *Great and Small Game of Africa*, p. 90, 1899, *Seventeen Trips to Somaliland*, ed. 2, p. 32, 1900; *Ridgeway*, *Thoroughbred Horse*, p. 57, 1905, *Proc. Zool. Soc.* 1909, p. 551; *Camerano*, *Atti Ac. Torino*, vol. xxxvii, p. 422, 1902; *Beddard*, *Cambridge Nat. Hist.*, *Mamm.* p. 244, 1902; *Scherren*, *Proc. Zool. Soc.* 1905, p. 145; *Elliot*, *Cat. Mamm. Field Mus.* (*Field Mus. Zool. Pub.* vol. viii) p. 104, 1907; *Lydekker*, *Game Animals of Africa*, p. 46, 1908, *Horse and its Relatives*, p. 190, 1912; *Drake-Brockman*, *Mamm. of Somali*, p. 103, 1910; *Griffini*, *Le Zebre*, p. 163, (1912) 1913, *Natura*, vol. iv, p. 13, 1913; *Schwarz*, *Arch. Naturgesch.* vol. lxxviii, pp. 34 and 41, 1912.

Equus grevyi faurei, *Matschie*, *Sitzber. Ges. nat. Freunde*, 1898, 170;

Camerano, Atti Ac. Torino, vol. xxxvii, p. 420, 1902; *Griffini, Le Zebre*, p. 170, (1912) 1913.

Megacephalon grevyi,* *Hilzheimer, Abh. Senckenberg. Ges.* vol. xxxi, p. 95, 1912.

Dolichohippus grevyi, *Heller, Smithsonian. Misc. Collect.* vol. ix, no. 8, p. 1, 1912.

Equus (Ludolphozecora) grevyi, Griffini, Natura, vol. iv, p. 14, 1913.

GRÉVY'S ZEBRA.

The typical and only representative of the subgenus.

Typical locality Abyssinia.

Type a living specimen sent to Paris by the Emperor Menelik, the skin of which is presumably now in the Paris Museum.

A.—*Equus grevyi grevyi*.

Typical locality Abyssinia.

B.—*Equus grevyi berberensis*.

Equus grevyi berberensis, Pocock, Ann. Mag. Nat. Hist. ser. 7, vol. x, p. 308, 1902; *Lydekker, Game Animals of Africa*, p. 49, 1908, *Horse and its Relatives*, p. 192, 1912; *Griffini, Le Zebre*, p. 170, 1912 (1913).

Typical locality Berbera, Somaliland.

90. 9. 29. 1. Skin. Berbera; collected by Herr J. Menges. Presented by Dr. P. L. Slater, 1890.

93. 12. 1. 2-3. Two head-skins and a skull, female. Ogadin, Somaliland; collected by Lieut.-Col. H. G. C. Swayne. Same donor, 1893.

94. 2. 21. 1-2. Two skins, the first the type. Durhi, Ogadain. Same donor, 1894.

94. 5. 3. 1. Skin, mounted. Somaliland.

Presented by Lieut.-Gen. Sir A. H. Paget, K.C.B., 1894.

98. 4. 27. 6. Skin. Near Lake Rudolf.

Presented by H. S. H. Cavendish, Esq., 1898.

12. 10. 3. 1. Skin and skull, immature. From an animal born in the London Zoological Gardens.

Presented by the Zoological Society, 1912.

* Although Hilzheimer stated that *Megacephalon* is a subgenus, he gave the name as above.

12. 2. 25. 1. Skin, semi-albino, mounted. Lorian Swamp, Upper Guasen-gishu Valley, British East Africa.

Presented by A. B. Percival, Esq., 1912.

14. 3. 13. 1. Head, young, mounted. Somaliland.

Presented by the Rowland Ward Trustees, 1914.

3. SUBGENUS HIPBOTIGRIS.

Hipbotigris, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. vii, p. 321, 1841; *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909; *Heller, Smithson. Misc. Collect.* vol. lx, no. 8, p. 2, 1912.

Pocock restricts *Hipbotigris* to the quagga and its subspecies; but in Hamilton Smith's original description *H. zebra* stands first of the five species there recognised; and that species was definitely fixed as the type of the group by W. L. Sclater* in 1900.

VI. EQUUS (HIPBOTIGRIS) QUAGGA.

Equus quagga, *Gmelin, Linn.'s Syst. Nat.* vol. i, p. 213, 1788; *Schreber, Säugthiere*, pl. cccxvii, 1790; *Griffith, Animal Kingdom*, vol. v, p. 295, 1827; *Harris, Game Anim. S. Africa*, pl. ii, 1840; *Lesson, Nouv. Tabl. Règne Anim., Mamm.* p. 166, 1842; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 413, 1884; *Flower, The Horse*, p. 90, 1891; *Flower and Lydekker, Study of Mammals*, p. 384, 1891; *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 37, 1897, ser. 7, vol. x, p. 306, 1902, vol. xiv, p. 318, 1904; *Bryden, Nature and Sport in S. Africa*, p. 178, 1897, *Great and Small Game of Africa*, p. 72, 1899; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 294, 1900; *Renshaw, Zoologist*, ser. 4, vol. v, p. 42, 1901, *Nat. Hist. Essays*, p. 179, 1904; *Lorenz, Proc. Zool. Soc.* 1902, vol. i, p. 32; *Beddard, Cambridge Nat. Hist., Mamm.* p. 244, 1902; *Lydekker, Proc. Zool. Soc.* 1904, vol. i, p. 428, *Game Animals of Africa*, p. 52, 1908, *Horse and its Relatives*, p. 194, 1912; *Ridgeway, Thoroughbred Horse*, p. 79, 1805, *Proc. Zool. Soc.* 1909, p. 563; *Roux, Rev. Suisse Zool.* vol. xviii, p. 917, 1910; *Griffini, Le Zebre*, p. 232, (1912) 1913, *Natura*, vol. iv, p. 15, 1913; *Lotichius, Ber. Senckenberg. Ges.* vol. xliii, p. 104, 1912; *Schwarz, Arch. Naturgesch.* vol. lxxviii, pp. 34 and 48, 1912.

Equus quacha, *F. Cuvier, Hist. Nat. Mamm.* pl. ccxiv, 1821.

Equus quagga, *Lesson, Mammalogie*, p. 347, 1827.

Equus quaccha, *Griffith, Animal Kingdom*, vol. iii, p. 344, 1827.

Hipbotigris quacha, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 330, pl. xxiv, 1841.

* *Fauna S. Africa, Mamm.* vol. i, p. 288; see also Palmer, *Index Gen. Mamm.* p. 328, 1904.

Hippotigris isabellinus, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 332, pl. xxv, 1841.

Asinus quagga, *Gray, Zool. Journ.* vol. i, p. 246, 1825, *List Mamm. Brit. Mus.* p. 183, 1843, *Knowsley Menagerie*, pl. lv, 1850, *Cat. Ungulata Brit. Mus.* p. 275, 1852, *Cat. Carnivora, etc. Brit. Mus.* p. 274, 1869, *Hand-List Thick-Skinned Mamm. Brit. Mus.* p. 37, 1873; *Brookes, Cat. Mus.* p. 20, 1828; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 272, 1862.

Hippotigris quagga, *Nicolls and Eglington, Sportsman in S. Africa*, p. 76, 1892; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Equus (Hippotigris) quagga, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902; *Hilzheimer, Abh. Senckenberg. Ges.* vol. xxxi, p. 99, 1912.

QUAGGA, QUACHA, OR QUAHA.

Typical locality the plains of Cape Colony south of the Orange River.

A.—*Equus quagga quagga* (Fig. 10).

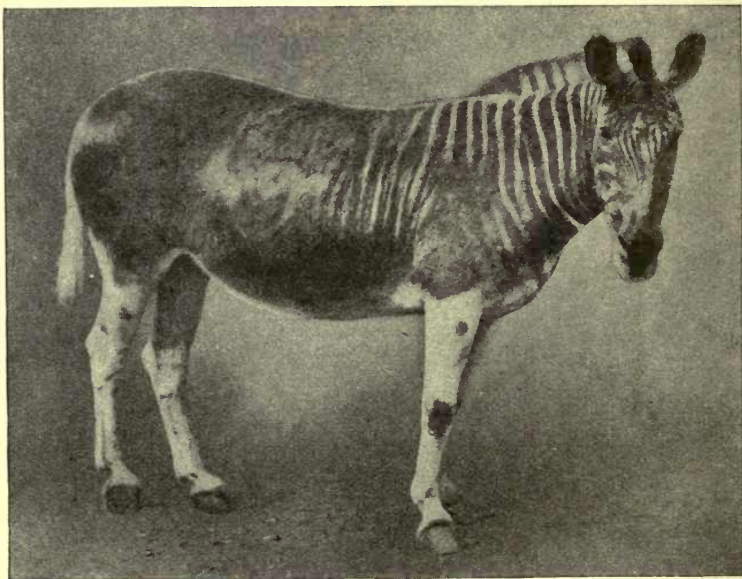


FIG. 10.—THE TRUE, OR CAPE QUAGGA (*Equus quagga quagga*).

Photographed from life by Mr. F. York.

The specimen represented appears to have been the female which lived in the Gardens of the Zoological Society, Regent's Park, London, from 1851 to 1872 (*cf. Ridgeway, Proc. Zool. Soc.* 1909, p. 575).

- Equus quagga lorenzi*, *Lydekker, Knowledge*, vol. xxv, p. 221, 1902; *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. xiv, p. 322, 1904.
- Equus quagga greyi*, *Lydekker, loc. cit.* 1902; *Pocock, loc. cit.* 1904.
- Equus quagga danielli*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. xiv, p. 319, pl. x, 1904.
- Equus quagga trouessarti*, *Camerano, Atti Acc. Torino*, vol. xxxvii, p. 564, 1908.
- Equus quagga quagga*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. xix, p. 516, 1907; *Schwarz, Arch. Naturgesch.* vol. lxxviii, pp. 52 and 56, 1912, by whom all the foregoing forms are regarded as not really separable from the present race.

QUAGGA, QUACHA, OR QUAHA.

Typical locality Cape Colony; now extinct.

64. 7. 2. 3 (1449, *a*). Skin, mounted, and skeleton. Cape Colony. From an animal presented by the Right Hon. Sir George Grey in 1859 to the Zoological Society, in whose menagerie it lived till 1864. Apparently the last survivor of its race. Type of *E. quagga greyi*.

Purchased (Zoological Society), 1864.

B.—*Equus quagga burchelli*.

- Asinus burchellii*, *Gray, Zool. Journ.* vol. i, p. 247, pl. iv, 1825, *Cat. Ungulata Brit. Mus.* p. 276, 1852, *Cat. Carnivora, etc. Brit. Mus.* p. 275, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 37, 1873; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 273, 1862; *Sclater, Proc. Zool. Soc.* 1865, pl. xxii.
- Equus montanus*, *F. Cuvier, Hist. Nat. Mamm.* pls. ccxvi and ccxvii, 1824; nec *Burchell*, 1822.
- Equus zebroides*, *Lesson, Man. Mamm.* p. 346, 1827, *Nouv. Tabl. Règne Anim.* p. 166, 1842.
- Equus festivus*, *Wagner, Schreber's Säugthiere*, Suppl. vol. vi, p. 216, pl. ccxvii, *B*, 1834.
- Hippotigris campestris*, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 329, 1841.
- Equus burchellii*, *Bennett, List Anim. Zool. Gardens*, p. 40, 1830; *Fischer, Synop. Mamm.* p. 432, 1842; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. 2, p. 414, 1884; *Flower and Lydekker, Study of Mammals*, p. 386, 1891; *Flower, The Horse*, p. 87, 1891; *W. L. Sclater, Cat. Mamm. Ind. Mus.* pt. ii, p. 200, 1891, *Fauna S. Africa, Mamm.* vol. i, p. 288, 1900; *Nicolls and Eglinton, Sportsman in S. Africa*, p. 74, 1892; *Matschie, Zool. Garten*, vol. xxxv, p. 66, 1894; *Bryden, Nature and Sport in S. Africa*, p. 171, 1897; *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 39, 1897, ser. 7, vol. x, p. 306, 1902; *Prazák, Wild Horses*, vol. i, pls. xxv and xxvi, 1899; *Neumarn, Great and Small Game of Africa*, p. 84, 1899; *Beddard, Cambridge Nat. Hist., Mamm.* p. 249, 1902; *Ridgeway, Thoroughbred Horse*, p. 59, 1905, *Proc. Zool. Soc.* 1909, pp. 552 and 564; *Trouessart*,

Bull. Mus. Paris, 1906, p. 449; *Lyon, Proc. U.S. Nat. Mus.* vol. xxxii, p. 1, pls. i-iii, 1907; * *Lydekker, Game Animals of Africa*, p. 56, 1908, *Horse and its Relatives*, p. 191, 1912; *Hamilton, Proc. Zool. Soc.* 1912, p. 757; *Cabrera, Cat. Met. Mam. Mus. Madrid*, p. 134, 1912.

Equus burchelli typicus, *Selous, Great and Small Game of Africa*, p. 79, 1899; *W. L. Sclater, Fauna S. Africa*, *Mamm.* vol. i, p. 288, 1900.

Equus quagga burchelli, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. xiv, p. 315, 1904, vol. xix, p. 517, 1907, *Proc. Zool. Soc.* 1909, p. 415; *Schwarz, Arch. Naturgesch.* vol. lxxviii, pp. 51 and 57, 1912; *Griffini, Le Zebre*, p. 199, (1912) 1913.

Hippotigris burchelli, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Equus burchelli paucistriatus, *Hilzheimer, Abh. Senckenberg. Ges.* vol. xxxi, p. 87, 1912.†

BONTEQUAGGA; BURCHELL'S ZEBRA; DAUW.

Typical locality apparently the plains north of the Vaal River, in British Bechuanaland.

The type specimen was originally in the collection, but was destroyed, or given away, at a time when the value of "types" was not recognised.

50. 11. 92. 63 (854, b). Skeleton. South Africa, referable to this or one of the allied southern races.

Purchased (Zoological Society), 1850.

64. 6. 1. 2 (852, c). Skin, young, formerly mounted. From an animal born in the London Zoological Gardens, and pertaining to this or one of the allied southern races.

Purchased (Zoological Society), 1864.

75, a. A very similar specimen. South Africa. b. of Gray's 1852 Catalogue. *From the South African Museum.*

3. 2. 21. 1. Skin, mounted. Orange River Colony. Perhaps not pure-bred, as the striping extends over most of the quarters. *Presented by the Hon. Walter Rothschild*, 1903.

C.—*Equus quagga antiquorum*.

Hippotigris antiquorum, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 327, pl. xxii, 1841; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1914.

* The figured animal, which came from Barnum and Bailey's Menagerie, is stated by Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 51, to be a hybrid of unknown parentage.

† Based on two specimens, one of which (the type), according to Schwarz, belongs to this race, and the other to the true quagga.

Equus antiquorum, Matschie, *Zool. Garten*, vol. xxxv, p. 6, 1894, *Sitzber. Ges. nat. Freunde*, 1898, p. 173.

Equus burchelli antiquorum, Pocock, *Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 42, 1897; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 289, 1900; *Camerano, Atti Acc. Torino*, vol. xxxvii, pp. 613 and 614, 1902; *Lydekker, Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 197, 1912.

Equus quagga antiquorum, Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902; *Schwarz, Arch. Naturgesch.* vol. lxxviii, p. 46, 1912; *Griffini, Le Zebre*, p. 220, (1912) 1913.

Equus chapmani antiquorum, Trouessart, *Cat. Mamm.*, Suppl. p. 645, 1905.

Typical locality probably south-west Africa, north of the sources of the Orange River; the range includes the Benguella district of Angola.

99. 4. 5. 1. Skin and skull. Angola; collected by G. W. Penrice, Esq. Purchased (Gerrard), 1899.

99. 4. 5. 2. Skin and skull. Same locality and collector. Same history.

D.—*Equus quagga pococki*.

Equus burchelli pococki, Brasil and Pannetier, *Actes Mus. Hist. Nat. Rouen*, vol. xii, p. 31, pls. ii-iii, 1909; Trouessart, *La Nature*, vol. xxxviii, p. 196, 1910.

Equus quagga pococki, Griffini, *Le Zebre*, p. 217, (1912) 1913, *Atti Soc. Ital.* 1913, p. 13, pl. xii, *Natura*, vol. iv, p. 19, 1913.

Typical locality not definitely known, but doubtless some part of southern Africa.

Type in Rouen Museum.

Regarded by Griffini, who refers to it as a specimen in the Tring Museum, as a connecting link between *E. q. burchelli* and *E. q. antiquorum* on the one hand, and *E. q. chapmani* and *E. q. wahlbergi* on the other; but its claims to distinction seem doubtful.

No specimen in collection.

E.—*Equus quagga chapmani*.

Equus chapmani,* Layard, *Proc. Zool. Soc.* 1865, p. 417; Sclater, *ibid.* pl. xxii; Matschie, *Zool. Garten*, vol. xxxv, p. 9, 1894; Prazák, *Wild Horses*, vol. i, pls. xvii-xix, 1898; Trouessart and Prazák, *Bull. Mus. Paris*, 1899, p. 350.

* Misspelt *chapmanni* in original notice.

- Equus burchelli chapmani*,* *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 43, 1897; *Ridgeway, Thoroughbred Horse*, p. 65, 1905; *Lydekker, Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 198, 1912.
- Equus quagga chapmani*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902, vol. xiv, p. 315, 1904; *Griffini, Le Zebre*, p. 214, (1912) 1913, *Natura*, vol. iv, p. 19, 1913.
- Hippotigris chapmani*,* *Roberts, Ann. Transvaal Mus.* vol. iv, p. 184, 1914.

Typical locality probably south-central Africa, between Damaraland and Matabililand.

No actual type is in existence, and Slater's plate must be regarded in that light.

F.—*Equus quagga wahlbergi*.

- Equus burchelli wahlbergi*, *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 44, 1897; *Prazák, Wild Horses*, vol. i, pl. xxiv, 1898; *W. L. Slater, Fauna S. Africa, Mamm.* vol. i, p. 290, 1900; *Lydekker, Game Animals of Africa*, p. 57, 1908, *Horse and its Relatives*, p. 197, 1912; *Hilzheimer, Abh. Senckenberg. Ges.* vol. xxxi, p. 97, 1912.
- Equus quagga wahlbergi*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902, vol. xiv, p. 315, 1904, *Proc. Zool. Soc.* 1909, p. 416; *Griffini, Le Zebre*, p. 216, 1912 (1913), *Natura*, vol. iv, p. 19, 1913; *Schwarz, Arch. Naturgesch.* vol. lxxviii, p. 51, 1912.
- Equus chapmani wahlbergi*, *Trouessart, Cat. Mamm., Suppl.* p. 646, 1905.
- Hippotigris wahlbergi*, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* p. 304, 1909.

Typical locality Zululand.

46. 6. 2. 76. Skin, mounted, and skull (46. 6. 2. 77-854, a), female. Zululand (Kaffraria); collected by Hr. J. Wahlberg. Type. *Purchased (Prof. C. J. Sundevall)*, 1846.

1. 4. 23. 1 and 2. Two young heads, mounted, referable to this or one of the allied south-eastern races. South-eastern (probably Portuguese) Africa.

Presented by J. Rowland Ward, Esq., 1901.

* *Misspelt chapmanni* in original notice.

G.—*Equus quagga transvaalensis*.

- Equus burchelli transvaalensis*, *Ewart, Veterinarian*, vol. lxx, p. 622, 1897, *Zoologist*, ser. 4, vol. ii, p. 49, 1898, *Bull. Soc. Acclim. Paris*, 1898, pp. 309 and 312; *Prazák, Wild Horses*, vol. i, pls. xix and xx, 1900; *Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 102, 1907.
- Equus chapmani transvaalensis*, *Trouessart, Cat. Mamm., Suppl.* p. 646, 1905.
- Hippotigris transvaalensis*, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 305, 1909.
- Equus quagga transvaalensis*, *Griffini, Le Zebre*, p. 217, (1912) 1913, *Natura*, vol. iv, p. 19, 1913; *Schwarz, Arch. Naturgesch.* vol. lxxviii, p. 51, 1912.

Typical locality northern Transvaal.

Type in Edinburgh Museum.

Closely related to *E. q. wahlbergi* (which ranges into the southern Transvaal), but with more or less distinct shadow-stripes on the neck.

H.—*Equus quagga selousi*.

- Equus burchelli selousi*,* *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 45, 1897; *Prazák, Wild Horses*, vol. i, pl. xxii, 1898; *W. L. Selater, Fauna S. Africa, Mamm.* vol. i, p. 291, 1900; *Beddard, Cambridge Nat. Hist., Mamm.* p. 246, 1902; *Rothschild, Proc. Zool. Soc.* 1906, p. 691; *Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 102, 1907; *Lydekker, Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 198, 1912.
- Equus quagga selousi*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902, vol. xiv, p. 316, 1904; *Griffini, Le Zebre*, p. 213, 1912 (1913), *Natura*, vol. iv, p. 19, 1913.
- Equus tigrinus selousi*, *Noack,† Zool. Anz.* vol. xxv, pp. 627 and 629, 1902.
- Equus chapmani selousi*, *Trouessart, Cat. Mamm., Suppl.* p. 646, 1905.

Typical locality Manyami Valley, Mashonaland.

83. 7. 28. 9. Skin, female, mounted. Manyami Valley, Mashonaland; collected by F. C. Selous, Esq. Type.

Purchased, 1883.

86. 5. 5. 13. Skeleton, mounted. Same locality and collector.

Purchased, 1886.

* Spelt *selousii* in original.

† Noack considered this race inseparable from the undermentioned *E. q. boehmi*, but used the later name *selousi*.

I.—*Equus quagga boehmi*.

Equus böhmi, Matschie, Sitzber. Ges. nat. Freunde, 1892, p. 131, Zool. Garten, vol. xxxv, p. 12, 1894, Säugeth. Deutsch-Ost-Afrika, p. 95, 1895, Monatshefte naturwiss. Unterricht Schulgatt. p. 305, 1909; Beddard, Cambridge Nat. Hist., Mamm. p. 245, 1902.

Equus burchelli boehmi, de Winton, Proc. Zool. Soc. 1898, p. 3; Prazák, Wild Horses, pl. xxv, 1898; Lydekker, Game Animals of Africa, p. 58, 1908, Horse and its Relatives, p. 198, 1912.

Equus chapmani boehmi, Trouessart, Cat. Mamm., Suppl. p. 605, 1905; Roux, Rev. Suisse Zool. vol. xviii, p. 922, 1910.

Equus quagga boehmi, Griffini, Le Zebre, p. 206, 1912 (1913), Natura, vol. iv, p. 19, 1913.

Typical locality Pangani, German East Africa.

The only race north of the Zambesi retaining more or less distinct remnants of shadow-stripes.

98. 1. 5. 13. Skin. Machakos, southern B. E. Africa.

Presented by S. L. Hinde, Esq., 1898.

3. 2. 21. 2. Skin, mounted, in a recumbent pose. Kili-manjaro district.

Presented by the Hon. Walter Rothschild, 1903.

3. 6. 10. 1 and 2. Two pieces of skin, one with traces of shadow-stripes. Elmenteita Station, B. E. Africa.

Presented by F. C. Selous, Esq., 1903.

J.—*Equus quagga zambeziensis*.

Equus burchelli zambeziensis, Prazák, Wild Horses, vol. i, pl. xvi, 1898; Trouessart, Bull. Mus. Paris, 1898, p. 63; Camerano, Atti Acc. Torino, vol. xxxvi, p. 613, 1902; Brasil and Pennetier, Mem. Soc. Linn. Norm. xxiii, p. 97, 1909, Bull. Soc. Linn. Norm. (6) ii, p. 101, 1910.

Equus chapmani zambeziensis, Trouessart, Cat. Mamm., Suppl. p. 646, 1905.

Equus quagga zambeziensis, Griffini, Le Zebre, p. 212, (1912) 1913, Natura, vol. iv, p. 19, 1913.

Typical locality Barotsiland, north bank of Upper Zambesi.

Type in Paris Museum.

Similar to, but rather larger than the undermentioned *E. q. crawshayi*, with narrower dark stripes, chocolate-brown nose-patch, and no longitudinal dorsal stripe.

K.—*Equus quagga crawshayi*.

- Equus burchelli crawshayi*, de Winton, *Ann. Mag. Nat. Hist.* ser. 6, vol. xvii, p. 819, 1896.
- Equus burchelli crawshayi*, Pocock, *Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 46, 1897; W. L. Sclater, *Fauna S. Africa, Mamm.* vol. i, p. 292, 1900; Ridgeway, *Thoroughbred Horse*, p. 68, 1905; Elliot, *Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 103, 1907; Lydekker, *Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 199, 1912; Hiltzheimer, *Abh. Senckenberg. Ges.* vol. xxxi, p. 97, 1912.
- Equus tigrinus*, Johnston, *Brit. Central Africa*, pp. 292 and 297, 1897.
- Equus burchelli mariæ*, Prazák, *Wild Horses*, vol. i, pl. xiii, 1898; subsequently identified by its describer with the present race.
- Equus quagga crawshayi*, Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 307, 1902; Griffini, *Le Zebre*, p. 212, (1912) 1913, *Natura*, vol. iv, p. 19, 1913; Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 55, 1912.
- Equus chapmani crawshayi*, Trouessart, *Cat. Mamm.*, Suppl. p. 969, 1905.
- Equus annectens*, Rothschild, *Proc. Zool. Soc.* 1906, p. 691; identified by Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 56, with the present race.
- Equus burchelli annectans*, Lydekker, *Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 199, 1912.
- Equus crawshayi*, Matschie, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 305, 1909.
- Equus chapmani mariæ*, Roux, *Rev. Suisse Zool.* vol. xviii, p. 925, 1910.
- Equus quagga crawshayi*, Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 56, 1912.
- Equus quagga annectens*, Griffini, *Le Zebre*, p. 210, (1912) 1913, *Atti Soc. Ital. Sci. Nat.* vol. li, p. 7, pls. x and xi, 1913.
- Equus quagga mariæ*, Griffini, *Le Zebre*, p. 211, (1912) 1913.

Typical locality Henga, Nyasaland, west of Lake Nyasa.

E. annectens, of which the type is in the Tring Museum, is from North-east Rhodesia; and *E. mariæ* from the district between Lakes Tanganyika and Nyasa. The last-named form appears to be intermediate between *E. q. crawshayi* and *E. q. granti*, and is regarded by some writers as not entitled to separation from the former, and by others from the latter.

95. 12. 12. 1. Skin and skull. Henga, Nyasaland. Type.
Presented by R. Crawshay, Esq., 1895.

96. 1. 29. 2. Skin. Nyasaland.

Presented by Sir Alfred Sharpe, K.C.M.G., C.B., 1896.

96. 1. 29. 3. Skin, young, mounted. Nyasaland.

Same history.

98. 5. 22. 19. Skin. Zomba, Nyasaland.

Same donor, 1898.

98. 5. 22. 20. Skin, young. Same locality. *Same history.*

1. 4. 27. 9. Head, mounted. Nyasaland. The mane is well developed, and the relative narrowness of the neck-stripes, as compared with those of *E. q. granti*, very noticeable.

Presented by Lieut.-Col. A. Manning, 1901.

L.—*Equus quagga cuninghamei* (Figs. 11, 12).

Equus quagga cuninghamei, Heller, *Smithson. Misc. Collect.* vol. lxi. no. 22, p. 3, 1914.



FIG. 11.—CUNINGHAME'S ZEBRA (*Equus quagga cuninghamei*), Mount Kenia.

From a photograph by Mr. F. A. O. Pym.

Typical locality northern Guaso-nyiro Valley, British East Africa.

Type in U.S. National Museum, Washington. Differs from *E. q. granti* by the darker tint of the light stripes, which are pale ochery buff, and the lighter dark stripes, which are bistre-brown, except on the head, where, like the nose-patch, they are seal-brown; mane well-developed; arrangement of body-stripes as in *E. q. granti* and *E. q. boehmi*,

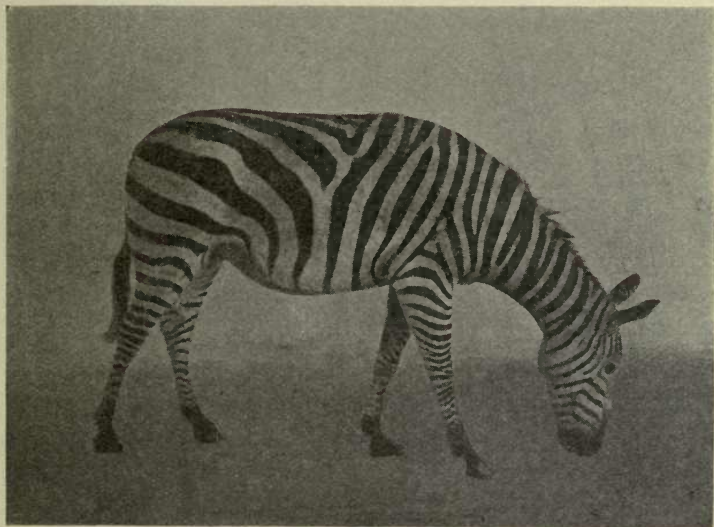


FIG. 12.—CUNINGHAME'S ZEBRA (*Equus quagga cuninghamei*), .
Mount Kenia.

From a photograph by Mr. F. A. O. Pym.

but shadow-stripes completely wanting; the widest stripes are the oblique ones on the quarters, between which and the last of the nine neck-stripes are four stripes extending downwards to join the longitudinal ventral stripe; leg-stripes below knees and hocks snuff-brown, and extending down to hoofs, immediately above which they are fused into a continuous dark area. Skull with the rostral portion shorter than in *E. q. granti* and a shorter diastema. Differs from *E. q. boehmi* not only in the foregoing characters, but likewise by the somewhat inferior bodily stature.

The range of this race, which is a desert type, extends

at least as far north as the northern flank of the Lorogi Mountains and southwards to the northern bank of the Tana.

1. 8. 9. 128. Skin, female. Near Lake Baringo. In the snuff-brown muzzle, seal-brown neck- and body-stripes, and the incomplete fusion of the rings on the pasterns, the specimen accords closely with the description of the present race.

Presented by Sir H. H. Johnston, G.C.M.G., K.C.B., 1901.

M.—*Equus quagga granti* (Fig. 13).

Equus burchelli granti, *de Winton, Ann. Mag. Nat. Hist.* ser. 6, vol. xvii, p. 319, 1896; *Pocock, Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 47, 1897; *Prazák, Wild Horses*, vol. i, pl. xiv, 1898; *Beddard, Cambridge Nat. Hist. Mamm.* 245, 1902; *Ridgeway, Thoroughbred Horse*, p. 70, 1905; *Lydekker, Game Animals of Africa*, p. 58, 1908, *Horse and its Relatives*, p. 199, 1912; *Cabrera, Cat. Met. Mam. Mus. Madrid*, p. 134, 1912.

Equus granti, *Sclater, Proc. Zool. Soc.* 1901, vol. ii, p. 593, pl. xxix; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 305, 1909.

Equus quagga granti, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 306, 1902, vol. xiv, p. 315, 1904; *Griffini, Le Zebre*, p. 203 (1912) 1913, *Natura*, vol. iv, p. 19, 1913.

Equus jallæ, *Camerano, Atti Acc. Torino*, vol. xxxvii, p. 619, pl. i, 1902.

Equus chapmani granti, *Trouessart, Cat. Mamm.*, Suppl. p. 646, 1905; *Roux, Rev. Suisse Zool.* vol. xviii, p. 924, 1910.

Equus chapmani jallæ, *Trouessart, Cat. Mamm.*, Suppl. p. 646, 1905.

Hippotigris muansæ, *Matschie, Weidwerk in Wort und Bild*, 1906, p. 235.

Equus muansæ, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 103, 1909.

Equus goldfinchi, *Ridgeway, Nature*, vol. lxxxvi, p. 245, 1911.

Equus burchelli jallæ, *Lydekker, Horse and its Relatives*, p. 199, 1912.

Equus quagga jallæ, *Griffini, Le Zebre*, p. 206, (1912) 1913, *Natura*, vol. iv, p. 19, 1913.

Equus quagga muansæ, *Griffini, Le Zebre*, p. 207, (1912) 1913.

Typical locality Thika-Thika Valley, upper Tana Valley, British East Africa. *Equus jallæ*, from southern Abyssinia, is considered by Roux to be not more than individually different from the present race, and the same view is taken

by Griffini with regard to *E. muansæ*, from the southern shore of the Victoria Nyanza. *E. goldfinchi* is based on an abnormally coloured skin from British East Africa.

72. 10. 13. 1. Skin (flat). Masailand, German East Africa; collected by J. Thomson, Esq. (see *Proc. Zool. Soc.* 1890, p. 413). *Presented by Dr. P. L. Sclater*, 1892.

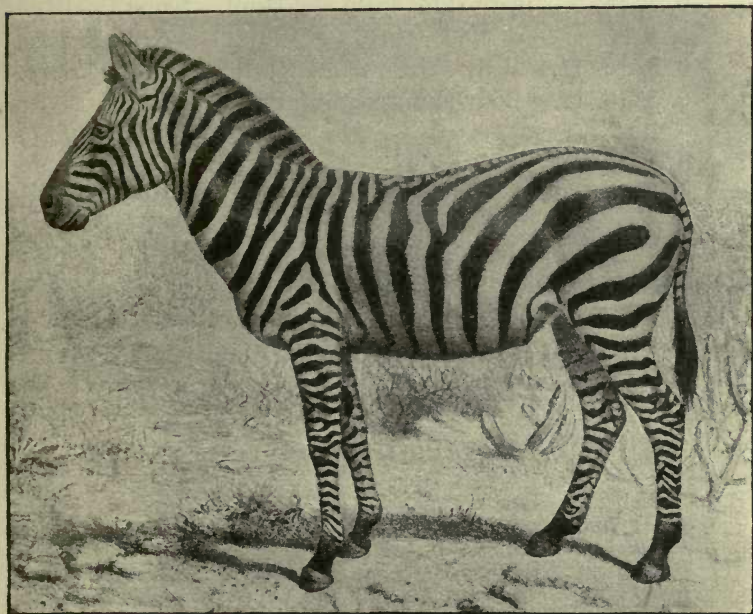


FIG. 13.—MALE MASAI ZEBRA (*Equus quagga granti*).

Formerly in the Gardens of the Zoological Society, Regent's Park, London, supposed to have come from the neighbourhood of Lake Rudolf.

From Sclater, *Proc. Zool. Soc.* 1901, vol. ii, pl. xxix.

94. 1. 2. 1. Skin and skull. Thika-Thika Valley. Type.
Presented by Dr. J. W. Gregory, 1894.

94. 1. 2. 2. Skin. Njemps, south of Lake Baringo.

Same history.

3. 1. 17. 1. Skin, mounted. Near Lake Baringo. The mane is but scantily developed, and the backs of the ears are mainly white.

Purchased, 1903.

10. 1. 13. 1. Skin and skull. Kedong Valley, B. E. Africa.
Presented by Major G. E. Tuson, 1910.

The following specimens differ from the typical examples of *E. q. granti* by the smaller amount of white on the ears, the brownish muzzle, and the narrower stripes.

0. 3. 18. 4. Skin, with the head and neck separate. Athi Plains, B. E. Africa.

Presented by S. L. Hinde, Esq., 1900.

0. 3. 18. 5. Body-skin, scalp and skull. Same locality.

Same history.

0. 3. 18. 11. Body-skin. Same locality. *Same history.*

0. 3. 18. 12. Body-skin, young. Same locality.

Same history.

0. 3. 18. 23. Body-skin, immature. Same locality.

Same history.

The following name has been applied to a hybrid bonte-quagga, bred in Barnum and Bailey's menagerie (see Pocock, *Field*, vol. cxiv, p. 389, 1909).

"Ward's Zebra," Ewart, *Proc. Zool. Soc.* 1904, vol. ii, p. 181.

Equus wardi, Ridgeway, *Proc. Zool. Soc.* 1909, p. 798, 1910.

VII. EQUUS (HIPPOGRYPUS) FOAI (Fig. 14).

Equus foai, Prazák and Trouessart, *Bull. Mus. Paris*, vol. v, p. 350, 1899; Ridgeway, *Thoroughbred Horse*, p. 64, 1905; Matschie, *Monatshfte naturwiss. Unterricht Schulgatt.* vol. ii, p. 309, 1909; Brasil and Pennetier, *Actes Mus. Rouen*, vol. xii, p. 39, 1909; Lydekker, *Game Animals of Africa*, Suppl. p. 4, 1911; *Horse and its Relatives*, p. 209, 1912; Griffini, *Le Zebre*, p. 251, (1912) 1913; Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 34, 1912.

Typical locality the mountainous district of Angoniland, on the north bank of the Zambesi opposite Teti.

Type in Paris Museum.

Differs from the recognised races of *E. (H.) quagga* by the larger number of main stripes on the body and hind-quarters, and the absence of any backward bending (except in the last of the series) of the body-stripes as they approach the dorsal stripe, to which they run approximately at right angles. In this respect Foa's zebra approximates to the true zebra and Grévy's zebra, from both of which it differs by the stripes on the hind-quarters adjacent to the dorsal stripe running parallel with the latter in the direction of

the tail, as in the *E. quagga* group, instead of at right angles, so that the "gridiron" pattern of *E. zebra* and the concentric stripe-arrangement of *E. grevyi* in this region are alike wanting. In general build, as well as in the shape of the head and ears, Foa's zebra comes nearest to *E. quagga*, the body-stripes, as in that species, meeting the stripe traversing the

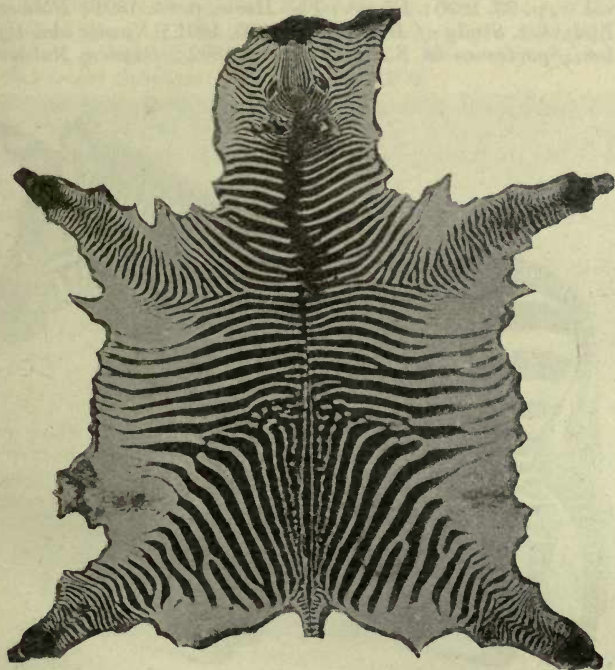


FIG. 14.—SKIN OF FOA'S ZEBRA (*Equus* [*Hippotigris*] *foai*).

From Lydekker, *The Horse and its Relatives*, 1912, pl. xix, fig. 1.

middle line of the under surface. The legs are striped to the fetlocks, and the pasterns are black.

Whether this zebra really represents a distinct species, or whether it should be regarded as a race of the bonte-quagga, akin to both *E. q. crawshayi* and *E. q. selousi*, may be doubtful.

No specimen in collection.

VIII. EQUUS (HIPPOTIGRIS) ZEBRA (Fig. 15).

Equus zebra, Linn. *Syst. Nat.* ed. 10, vol. i, p. 74, 1758, ed. 12, p. 101, 1766; Schreber, *Säugethiere*, pl. cccxvi, 1790; F. Cuvier, *Hist. Nat. Mamm.* pl. cccxxviii, 1826; Griffith, *Animal Kingdom*, vol. iii, p. 343, vol. v, p. 295, 1827; Lesson, *Nouv. Tabl. Règne Anim.*, Mamm. p. 166, 1842; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 414, 1884; Bocage, *J. Sci. Lisboa*, vol. v, p. 23, 1890; Flower, *The Horse*, p. 85, 1891; Flower and Lydekker, *Study of Mammals*, p. 385, 1891; Nicolls and Eglington, *Sportsman in S. Africa*, p. 74, 1892; Bryden, *Nature and*



FIG. 15.—THE MOUNTAIN ZEBRA (*Equus* [*Hippotigris*] *zebra*).

Sport in S. Africa, p. 163, 1897, *Great and Small Game of Africa*, p. 92, 1899; Pocock, *Ann. Mag. Nat. Hist.* ser. 6, vol. xx, p. 26, 1897; Prazák, *Wild Horses*, vol. i, pls. ix and x, 1898; W. L. Selater, *Fauna S. Africa*, Mamm. vol. i, p. 286, 1900; Beddard, *Cambridge Nat. Hist.*, Mamm. p. 244, 1902; Ridgeway, *Thoroughbred Horse*, p. 69, 1905; Elliot, *Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 103, 1907; Lydekker, *Game Animals of Africa*, p. 61, 1908, *Horse and its Relatives*, p. 211, 1912; Griffini, *Le Zebre*, p. 178, (1912) 1913; Schwarz, *Arch. Naturgesch.* vol. lxxviii, pp. 34 and 40, 1912; Cabrera, *Cat. Met. Mamm. Mus. Madrid*, p. 134, 1912.

Equus indica, Edwards, *Gleanings in Nat. Hist.* vol. i, pl. cccxii,

1858-64; *Knight, Pictorial Mus. Nat. Hist.* figs. 479 and 508, no date.

Equus montanus, *Burchell, Travels in S. Africa*, vol. i, pp. 139 and 265, 1822; *Harris, Wild Animals S. Africa*, pl. xxiv, 1840; *Gray, Knowsley Menagerie*, pl. lvi, 1850.

Asinus zebra, *Gray, Zool. Journ.* vol. i, p. 248, 1825, *List Mamm. Brit. Mus.* p. 183, 1843, *Cat. Ungulata Brit. Mus.* p. 277, 1852, *Cat. Carnivora, etc. Brit. Mus.* p. 276, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 38, 1873; *Brookes, Cat. Mus.* p. 20, 1828; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 273, 1862.

Hippotigris zebra, *H. Smith, Jardine's Naturalist's Libr., Mamm.* vol. xii, p. 324, pl. xxi, 1841; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Hippotigris campestris, *Gray, Cat. Ungulata Brit. Mus.* p. 277, 1852 ex *H. Smith, MS.*

Equus (Asinus) zebra, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902.

ZEBRA.

Typical locality the Drakensberg and other mountain-ranges of Cape Colony.

The type of *Hippotigris* (*vide supra*, p. 19).

A.—*Equus zebra zebra*.

Equus zebra frederici, *Trouessart, Cat. Mamm. Suppl.* p. 646, 1905, *Griffini, Le Zebre*, p. 184, fig. 27, (1912) 1913; based on the specimen figured by F. Cuvier, and reputed to have come from the northern part of Cape Colony.

Hippotigris frederici, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Equus zebra zebra, *Schwarz, Arch. Naturgesch.* vol. lxxviii, p. 44, 1912.

Typical locality the Drakensberg or one of the other mountain-ranges of Cape Colony.

* * * * Skin. South Africa; probably collected and presented by Dr. W. J. Burchell.

† † † †. Skin, young, mounted. South Africa. Entered as *b* in Gray's 1852 Catalogue.

Presented by G. B. Sowerby, Esq.

706, *b, f.* Two skulls. South Africa. *Purchased (Argent).*

46. 3. 23. 9. Skin and skeleton (46. 3. 23. 10—706, *a*).

Purchased (Bartlett), 1846.

47. 1. 27. 1. Skin and skull (47. 1. 27. 2—706, *d*), female.

South Africa.

Presented by the Earl of Derby, 1847.

96. 12. 17. 1. Skin, mounted. Cradock, Cape Colony.

Presented by C. Haseltine, Esq., 1896.

11. 2. 15. 1. Skin, skull, and limb-bones. From an animal born in the London Zoological Gardens.

Presented by the Zoological Society, 1911.

B.—*Equus zebra hartmannæ*.

Equus hartmannæ, Matschie, *Sitzber. Ges. nat. Freunde*, 1898, p. 174.
Equus penricei, Thomas, *Ann. Mag. Nat. Hist.* ser. 7, vol. vi, p. 465, 1900.

Hippotigris hartmannæ, Camerano, *Atti Acc. Torino*, vol. xxxvii, p. 613, 1902; Matschie, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Hippotigris penricei, Camerano, *Atti Acc. Torino*, vol. xxxvii, p. 613, 1902; Matschie, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 304, 1909.

Equus zebra hartmannæ, Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902; Lydekker, *Game Animals of Africa*, p. 61, 1908, *Horse and its Relatives*, p. 214, 1912; Griffini, *Le Zebre*, p. 183, (1912) 1913; Schwarz, *Arch. Naturgesch.* vol. lxxviii, p. 43, 1912.

Equus zebra penricei, Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902; Lydekker, *Game Animals of Africa*, p. 61, 1908, *Horse and its Relatives*, p. 214, 1912.

Typical locality between Hoanib and Unilab, German South-west Africa. *E. penricei*, typically from Providencia, Moninho Valley, N.E. of Mossamedes, is regarded by Schwarz as inseparable from the present race.

Type in Berlin Museum.

0. 9. 12. 1. Skin. Providencia, Moninho Valley, N.E. of Mossamedes, Portuguese West Africa; collected by G. W. Penrice, Esq. Type of *E. penricei*. *Purchased (Gerrard)*, 1900.

4. SUBGENUS **ASINUS**.

Asinus, Gray, *Zool. Journ.* vol. i, p. 244, 1825, *List Mamm. Brit. Mus.* p. 268, 1843, *Cat. Carnivora, etc. Brit. Mus.* p. 267, 1869; H. Smith, *Jardine's Naturalist's Libr.*, *Mamm.* vol. xx, p. 364, 1841; Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902; Heller, *Smithson. Misc. Collect.* vol. lx, no. 8, p. 2, 1912.

IX. EQUUS (ASINUS) ASINUS.

Equus asinus, Linn. *Syst. Nat.* ed. 10, vol. i, p. 73, 1758, ed. 12, vol. i, p. 100, 1766; Griffith, *Animal Kingdom*, vol. iii, p. 313, vol. v, p. 295, 1827; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 410, 1884; Flower and Lydekker, *Study of Mammals*, p. 383, 1891; Flower, *The Horse*, p. 81, 1891; Anderson and de Winton, *Mamm. Egypt*, p. 392, 1902; Lydekker, *Novit. Zool.* vol. xi, p. 593, 1904, *Game Animals of Africa*, p. 65,

1908, *Horse and its Relatives*, p. 1912; Pocock, *Ann. Mag. Nat. Hist.* ser. 8, vol. iv, p. 523, 1909.

Asinus vulgaris, Gray, *Zool. Journ.* vol. i, p. 244, 1827, *List Mamm. Brit. Mus.* p. 268, 1843, *Cat. Ungulata Brit. Mus.* p. 268, 1852; *Cat. Carnivora, etc. Brit. Mus.* p. 268, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 36, 1873; Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 273, 1862.

Equus (Asinus) asinus, Pocock, *Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902.

Ass.

The type (and only) species of the genus, typified by the domesticated ass of Asia.

A.—*Equus asinus asinus*.

Equus asinus asinus, Pocock, *Ann. Mag. Nat. Hist.* ser. 8, vol. iv, p. 527, 1909.

B.—*Equus asinus africanus* (Fig. 16).

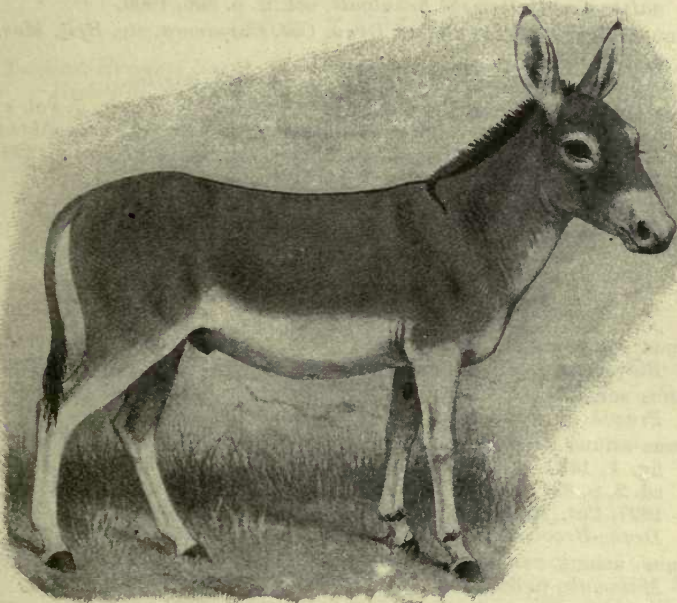


FIG. 16.—MALE NUBIAN WILD ASS (*Equus asinus africanus*), Atbara River, Eastern Sudan.

Presented by the Hon. N. C. Rothschild (4. 6. 12. 1).
From Lydekker, *Novitates Zoologicae*, vol. xi, 1904, pl. xx.

- Asinus africanus*, *Fitzinger, Naturgesch. Säugethiere*, vol. iii, p. 667, 1857; *Matschie, Zool. Garten*, vol. xxxv, p. 16, 1894, *Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 106, 1909; *Prazák, Wild Horses*, vol. i, pls. i and ii, 1898.
- Equus asinus africanus*, *Sclater, Proc. Zool. Soc.* 1884, p. 502, pl. 2; *Forbes, Socotra*, p. 9, pl. ii, 1903; *Lydekker, Novit. Zool.* vol. xi, p. 693, pl. xx, 1904, *Game Animals of Africa*, p. 66, 1908, *Horse and its Relatives*, p. 220, 1912; *Pocock, Ann. Mag. Nat. Hist.* ser. 8, vol. iv, p. 523, 1909; *Griffini, Le Zebre*, p. 16, (1912) 1913.
- Equus asinus var. africanus*, *Flower and Lydekker, Study of Mammals*, p. 383, 1891.
- Equus africanus*, *Beddard, Cambridge Nat. Hist., Mamm.* p. 243, 1902.

Typical locality Nubia (according to Matschie, *Erythræa*).

C.—*Equus asinus tæniopus*.

- Asinus tæniopus*, *Heuglin, Nova Acta Ac. Cæs. Leop.-Car.* vol. xxviii, pl. i, 1861, *Petermann's Mittheilungen*, 1861, p. 19, *Fauna Rothen Meeres, Peterm. Mittheil.* 1861, pp. 15 and 19, *Proc. Zool. Soc.* 1864, p. 374, *Reise Nord-Ost-Afrika*, vol. ii, p. 91, 1877, *partim*; *Sclater, Proc. Zool. Soc.* 1862, p. 164; *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.
- Asinus vulgaris var. tæniopus*, *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 268, 1869.
- Equus tæniopus*, *Flower, The Horse*, p. 88, 1891, *partim*.
- Equus asinus tæniopus*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902, ser. 8, vol. iv, p. 529, 1909; *Ridgeway, Thoroughbred Horse*, p. 54, 1905; *Lydekker, Horse and its Relatives*, p. 220, 1912; *Griffini, Le Zebre*, p. 16, (1912) 1913.

Typical locality Hawash district of Abyssinia.

D.—*Equus asinus somaliensis*.

- Equus somaliensis*, *Noack, Zool. Garten*, vol. xxv, p. 374, 1884; *Ridgeway, Thoroughbred Horse*, p. 54, 1905.
- Asinus somaliensis*, *Matschie, Zool. Garten*, vol. xxxv, p. 16, 1894; *Prazák, Wild Horses*, vol. i, pls. iii-v, 1898.
- Equus asinus somalicus*, *Sclater, Proc. Zool. Soc.* 1884, p. 540, pl. 2, fig. 1, 1892, p. 195; *Swayne, Seventeen Trips to Somaliland*, ed. 2, p. 321, 1900; *Elliot, Field Mus. Zool. Pub.* vol. i, p. 139, 1897, *Cat. Mamm. Field Mus. (op. cit. vol. viii)* p. 104, 1907; *Drake-Brockman, Mamm. Somali.* p. 103, 1910.
- Equus asinus var. somalicus*, *Flower and Lydekker, Study of Mammals*, p. 383, 1891.
- Equus nubianus somalicus*, *Peel, Somaliland*, p. 300, 1900.
- Equus somalicus*, *Beddard, Cambridge Nat. Hist., Mamm.* p. 244, 1902.
- Equus asinus somaliensis*, *Pocock, Ann. Mag. Nat. Hist.* ser. 7, vol. x, p. 305, 1902, ser. 8, vol. iv, pp. 524 and 527, 1909; *Lydekker,*

Novit. Zool. vol. iv, p. 595, 1904, *Game Animals of Africa*, p. 66, 1908, *Horse and its Relatives*, p. 220, 1912; *Griffini, Le Zebre*, p. 16, (1912) 1913.

Asinus somalicus, *Matschie, Monatshefte naturwiss. Unterricht Schulgatt.* vol. ii, p. 306, 1909.

Typical locality Berbera district of Somaliland.

86. 1. 25. 9. Skin. Near Berbera; collected by Herr J. Menges. Co-type of *E. a. somalicus*. Purchased, 1886.

86. 2. 17. 1. Skin and skeleton. Same locality and collector. Co-type of *E. a. somalicus*; figured *Proc. Zool. Soc.* 1884, pl. iv. Same history.

92. 4. 8. 1. Skin. Berbera; collected by Lieut.-Col. H. G. C. Swayne. Presented by Dr. P. L. Sclater, 1892.

93. 6. 26. 1. Skin, mounted. Shebeli Valley, Somaliland. Presented by Lieut.-Gen. Sir A. H. Paget, K.C.B., 1893.

FAMILY II.—TAPIRIDÆ.

Genus TAPIRUS.

Tapirus, *Brisson, Règne Animal*, p. 118, 1756; *Cuvier, Tabl. Elém. Hist. Nat.* p. 152, 1798; *Parker, Proc. Zool. Soc.* 1882, p. 775; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 381, 1884; *Flower, The Horse*, p. 43, 1891.

Tapir, *Blumenbach, Handbuch Naturgeschichte*, vol. i, p. 129, 1779; *Zimmermann, Geogr. Geschichte*, vol. ii, p. 153, 1780; *Gmelin, Linn.'s Syst. Nat.* vol. i, p. 216, 1788; *Griffith, Animal Kingdom*, vol. iii, p. 339, vol. v, p. 293, 1827.

Tapyra, *Liais, Climats Geol.* p. 397, 1872.

1. SUBGENUS ACROCODIA.

Rhinocærus, *Wagler, Syst. Nat. Amphib.* p. 19, 1830, *partim* (invalid, *teste* Goldman); *Gray, Proc. Zool. Soc.* 1867, p. 884, *Cat. Carnivora, etc. Brit. Mus.* p. 259, 1869.

Acrocodia, *Goldman, Proc. Biol. Soc. Washington*, vol. xxvi, p. 65, 1913.

I. TAPIRUS (ACROCODIA) INDICUS.

Tapirus indicus, *Desmarest, Nouv. Dict. Hist. Nat.* vol. xxxii, p. 458, 1819, *Mammalogie*, vol. ii, p. 411, 1822; *F. Cuvier, Hist. Nat. Mamm.* pl. ccciii, 1825; *Giebel, Säugethiere*, p. 183, 1855; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 383, 1884; *Flower, The Horse*, p. 46, 1891; *Flower and Lydekker, Study of Mammals*, p. 371, 1891; *W. L. Sclater, Cat. Mamm. Ind. Mus.* pt. ii, p. 198, 1891; *Blanford, Fauna Brit. India, Mamm.* p. 478,

1891; *Lydekker, Great and Small Game of India, etc.* p. 31, 1900, *Game Animals of India, etc.* p. 40, 1907; *Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 101, 1907; *Beddard, Proc. Zool. Soc.* 1909, p. 161, *Cambridge Nat. Hist., Mamm.* p. 252, 1902; *Pocock, Proc. Zool. Soc.* 1909, p. 418; *Lönnberg, Arkiv Zool.* vol. vi, no. 15, 1910.

Tapirus sumatranus, *Gray, Med. Repository*, 1821.

Tapirus malayanus, *Raffles, Trans. Linn. Soc.* vol. xiii, p. 270, 1822; *Horsfield, Zool. Researches, Java*, pls. 1824; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 246, pl. xxx, 1837; *Cantor, Journ. Asiat. Soc. Bengal*, vol. xv, p. 263, 1846; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 276, 1862; *Blyth, Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 135, 1863, *Cat. Mamm. Birds, Burma*, p. 49, 1875; *Sterndale, Mamm. India*, p. 404, 1885.

Tapir malayanus, *Griffith, Animal Kingdom*, vol. v, p. 294, 1827.

Tapirus bicolor, *Wagner, Schreber's Säugthiere*, vol. vi, p. 400, 1835.

Rhinocœrus sumatranus, *Gray, Proc. Zool. Soc.* 1867, p. 884, *Cat. Carnivora, etc. Brit. Mus.* p. 260, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 85, 1873.

Acrocodia indica, *Goldman, Proc. Biol. Soc. Washington*, vol. xxvi, p. 65, 1913.

MALAY TAPIR.

Type of *Rhinocœrus* and *Acrocodia*.

Typical locality Malay Peninsula.

710, *a*. Skeleton, mounted. Sumatra. Belonged to an animal presented by Sir J. Stamford Raffles to the Zoological Society, and originally mounted in the skin of the same individual (*a* of Gray's 1843 *List* and 110 *a* of his 1873 *Hand-List*), which was destroyed in 1873.

Purchased (Zoological Society).

51. 11. 10. 38 (710, *c*). Skull. Locality unknown.

Purchased (Zoological Society), 1851.

55. 12. 26. 150 (710, *b*). Skull. Locality unknown.

Purchased (Zoological Society), 1855.

73. 7. 3. 7. Skin, mounted. Locality unknown.

Purchased (Gerrard), 1873.

74. 4. 8. 1. Skin, young, mounted. Locality unknown.

Same history, 1874.

79. 11. 21. 180. Skull. Probably Sumatra; collected by Sir J. Stamford Raffles.

Transferred from India Museum, 1879.

12. 4. 28. 1. Skin and skeleton. Taiping, Perak.

Presented by the Taiping Museum, 1912.

12. 9. 16. 1. Skin, mounted. Taiping, Perak.

Presented by H. C. Robinson, Esq., 1912.

2. SUBGENUS TAPIRUS.

- Tapirus*, *Brisson, op. cit., partim; Gray, Proc. Zool. Soc.* 1867, p. 870, *Cat. Carnivora, etc. Brit. Mus.* p. 254, 1869; *Flower and Lydekker, Study of Mammals*, p. 371, 1891, *partim; Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 101, 1907.
- Cinchacus*, *Gray, Hand-List Thick-skinned Mamm. Brit. Mus.* p. 34, 1873.
- Chinchecus*, *Trouessart, Cat. Mamm.* p. 769, 1898, *errorim.*

II. TAPIRUS TERRESTRIS.

- Hippopotamus terrestris*, *Linn., Syst. Nat.* ed. 10, vol. i, p. 174, 1758.
- Hydrochærus tapir*, *Erzleben, Syst. Regn. Anim.* p. 191, 1777.
- Tapir anta*, *Zimmermann, Geogr. Geschichte*, vol. ii, p. 154, 1786.
- Tapirus americanus*, (?) *Gmelin, Linn.'s Syst. Nat.* vol. i, p. 216, 1788; *Cuvier, Règne Animal*, vol. i, p. 242, 1817, *Ossements Fossiles*, ed. 3, vol. iii, p. 277, 1823; *Wied, Beiträge Naturgesch. Brasil.* vol. ii, p. 549, 1826; *Rengger, Säugeth. Paraguay*, p. 312, 1830; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 241, pl. xxviii, 1837; *Tschudi, Fauna Peru., Therol.* p. 213, 1844; *Sclater, Quart. Journ. Sci.* vol. ii, p. 621, pl. viii, 1865; *Pelzeln, Verk. Zool.-Bot. Ges. Wien, Beiheft*, 1883, p. 86; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 384, 1884; *Flower, The Horse*, p. 46, 1891; *Flower and Lydekker, Study of Mammals*, p. 371, 1891; *Ameghino, An. Mus. Nac. Buenos Aires*, vol. xx, p. 1, 1909; *Schlüter, Entwicklung Schädel Tapirus americanus*, 1910; *Scharff, Development of Life in America*, p. 352, 1910; *Kathariner, Naturwiss. Wochenschrift*, ser. 2, vol. xiii, p. 422, 1914.
- Tapirus suillus*, *Blumenbach, Handbuch Naturgesch.* p. 120, 1791; *Wagner, Schreber's Säugethiere*, Suppl. vol. iv, p. 294, 1844; *Burmeister, Thiere Brasil.* vol. i, p. 331, 1854, *Descrip. Phys. Repub. Argent.* vol. iii, p. 486, 1879.
- Tapir americanus*, *Griffith, Animal Kingdom*, vol. iii, p. 340, vol. v, p. 293, 1827.
- Tapirus terrestris*, *Gray, List Mamm. Brit. Mus.* p. 184, 1843, *Proc. Zool. Soc.* 1867, p. 877, *Cat. Carnivora, etc. Brit. Mus.* p. 254, 1869, *Proc. Zool. Soc.* 1872, p. 492, pl. xxii, fig. 3, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 33, 1873; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 275, 1862; *Hatcher, Amer. J. Sci.* 1896, vol. i, p. 174, pls. iv and v; *Lydekker, Great and Small Game of Europe, etc.* p. 383, 1901; *Beddard, Cambridge Nat. Hist., Mamm.* p. 251, 1902; *Osgood, Field Mus. Zool. Pub.* vol. x, p. 46, 1912.
- Tapirus ecuadorensis*, *Gray, Proc. Zool. Soc.* 1872, p. 402, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 34, 1873.
- Tapirus tapirus*, *Palmer (ex Brisson), Index Genera Mamm.* p. 663, 1904; *Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 101, 1907; *Cabrera, Cat. Met. Mam. Mus. Madrid*, p. 134, 1912.

TAPIR; BRAZILIAN TAPIR.

Type of genus.

Typical locality Brazil or Paraguay.

A.—*Tapirus terrestris terrestris*.

Typical locality Brazil or Paraguay.

General characters those of the species.

38, *a*. Skin, immature, mounted. Locality unknown.
The reference of this and other specimens, of which the place of origin is unknown, to the present race, is provisional.

Presented by the Royal College of Surgeons.

709, *h*. Skeleton, young. Locality unknown.

No history.

42. 4. 10. 1 (38, *b*). Skin, young, mounted. Locality unknown.
Purchased (Tucker), 1842.

42. 6. 20. 1 (709, *c*). Skull. Rio de Janeiro, Brazil.

Presented by J. Miers, Esq., 1842.

43. 2. 1. 57 (709, *b*). Skull, Berbice, British Guiana.

Purchased (Scrivener), 1843.

47. 4. 6. 1 (709, *d*). Skeleton. Brazil.

Purchased (Becker), 1847.

55. 12. 26. 151 (709, *e*). Skull, immature. Demerara; collected by Sir R. Schomburgk.

Purchased (Zoological Society), 1855.

55. 12. 26. 152 (709, *f*). Skull, young. Locality unknown.
Purchased (Zoological Society), 1855.

56. 1. 12. 5 (38, *f*). Skin, young, mounted. Locality unknown. Figured by Gray, *Proc. Zool. Soc.* 1872, pl. xvii, fig. 3.
Purchased (Stevens), 1856.

72. 6. 4. 1 (709, *m*). Skull. Surinam; collected by Mr. E. Bartlett.
Purchased, 1872.

82. 9. 30. 21 (709, *p*). Skull. Taquara, Rio Grande do Sul, Brazil; collected by Dr. H. von Ihering.

Purchased, 1882.

82. 9. 30. 22-23 (709, *q* and *r*). Two skulls, female. Same locality and collector.
Same history.

84. 2. 8. 15 (709, *s*). Skull. Same locality and collector.

Purchased, 1884.

84. 2. 8. 16 (709, *t*).

11. 11. 12. 1. Skin, mounted, and skull. Brazil.

Purchased (R. Ward), 1911.

B.—*Tapirus terrestris laurillardi*.

Tapirus laurillardi, Gray, *Proc. Zool. Soc.* 1867, p. 881, *Cat. Carnivora, etc. Brit. Mus.* p. 256, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 34, 1873.

Tapirus americanus laurillardi, Hagmann, *Archiv Rassen- und Gesell.-Biol.* vol. v, p. 24, 1908 (by inference from text).

Typical locality Venezuela (?).

52. 12. 9. 3. (709, *g*). Skull. Venezuela (?). Type.

Purchased (Brandt), 1852.

C.—*Tapirus terrestris mexianæ*.

Tapirus americanus var. mexianæ, Hagmann, *Archiv Rassen- und Gesell.-Biol.* vol. v, p. 22, 1908.

Typical (and only) locality Mexiana Island, mouth of the Amâzons.

Distinguished from typical race by contour of profile of nasal region of skull, which lacks the marked depression at the root of the nasals in the latter, and by differences in the form and relations of some of the cranial bones; bodily size smaller.

No specimen in collection.

D.—*Tapirus terrestris spegazzinii*.

Tapirus spegazzinii, Ameghino, *Ann. Mus. Nac. Buenos Aires*, vol. xx, p. 31, 1909.

Typical locality Tucuman, Argentina.

Type in Buenos Aires Museum.

Based on an immature skull, which differs from adult skulls of the typical race by the much shorter and relatively wider nasal bones.

III. TAPIRUS ROULINI.

Tapir pinchaque (native name), *Roulin, Ann. Sci. Nat.* vol. xvii, p. 107, 1829; *Goudot, C.-R. Ac. Sci. Paris*, vol. xvi, p. 331, 1843.

Tapirus roulini, *Fischer, Synop. Mamm.* p. 606, 1829; *Giebel, Säugthiere*, p. 182, 1855; *Sclater, Proc. Zool. Soc.* 1878, p. 631, pl. xxxix; *Flower, The Horse*, p. 46, 1891; *Flower and Lydekker, Study of Mammals*, p. 371, 1891; *Hatcher, Amer. J. Sci.* 1896, vol. i, p. 173, pls. iv and v; *Lydekker, Great and Small Game of Europe, etc.* p. 389, 1901; *Beddard, Cambridge Nat. Hist., Mamm.* p. 251, 1902.

Tapirus villosus, *Wagner, Schreb. Säugth. VI*, p. 392, 1835, *Supp. iv*, p. 294, 1844, *Tschudi, Faun. Peruana*, p. 213, 1844.

Tapirus pinchacus, *Blainville, Ostéographie, Genus Tapirus*, pls. i-v; *Gray, Proc. Zool. Soc.* 1867, p. 884, *Cat. Carnivora, etc. Brit. Mus.* p. 259, 1869.

Tapirus pinchaque, *Trouessart, Cat. Mamm.* p. 769, 1893.

Tapirus leucogenys, *Gray, Proc. Zool. Soc.* 1872, p. 488, pl. xxi, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 34, 1873.

Tapirus enigmaticus, *Gray, Proc. Zool. Soc.* 1872, p. 490; *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 34, 1873.

ROULIN'S TAPIR.

Type, as represented by *T. leucogenys*, of subgenus *Cinchacus*.

Typical locality Bogotá, Colombia.

72. 1. 24. 3-4 (1577, b). Adult male, mounted, and skull. Assuay, Ecuador; collected by Clarence Buckley.

Type of *T. leucogenys*, Gray. *Purchased, 1872.*

72. 1. 24. 5-6 (1577, a). Female. *Same history.*

72. 1. 24. 7-8 (1577, d). Young. *Same history.*

72. 1. 24. 1-2 (1577, c). Immature female, mounted, and skeleton. Suñac, Ecuador; collected by Clarence Buckley. *Purchased, 1872.*

72. 1. 24. 9-10 (1577, f). Young. Type of *T. enigmaticus*, Gray. *Same history.*

72. 1. 24. 11 (1577, e). Young skin, and skeleton. *Same history.*

3. SUBGENUS TAPIRELLA.

Elasmognathus, *Gill, Proc. Ac. Sci. Philad.* 1865, p. 183; *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 261, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 35, 1873; *Flower, The Horse*, p. 46, 1891; nec *Fischer*, 1844.

Tapirella, *Palmer, Science*, ser. 2, vol. xvii, p. 873, 1903.

IV. TAPIRUS (TAPIRELLA) BAIRDI.

Elasmognathus bairdii, Gill, *Proc. Ac. Sci. Philad.* 1865, p. 183, *Amer. J. Sci.* vol. xliii, p. 370, 1865; Verrill, *Amer. J. Sci.* vol. xliv, p. 126, 1866; Dow, *Proc. Zool. Soc.* 1867, p. 241; Gray, *Proc. Zool. Soc.* 1867, p. 885, pl. xlii, *Cat. Carnivora, etc. Brit. Mus.* p. 261, 1863, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 35, 1873; Alston, *Proc. Zool. Soc.* 1872, p. 666, *Biol. Centr.-Amer., Mamm.* p. 101, pl. viii, figs. 1 and 2, 1882; Hatcher, *Amer. J. Sci.* 1896, vol. 1, p. 175, pls. iv and v.

Tapirus bairdi, Flower, *Proc. Zool. Soc.* 1867, p. 240, *The Horse*, p. 46, 1891; Sclater, *Proc. Zool. Soc.* 1871, p. 626, pl. i, 1874, p. 89; Alston, *Biol. Centr.-Amer., Mamm.* p. 101, pl. viii, figs. 1 and 2, 1882; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 385, 1884; Flower and Lydekker, *Study of Mammals*, p. 371, 1891; Lydekker, *Great and Small Game of Europe, etc.* p. 390, 1901; Beddard, *Cambridge Nat. Hist., Mamm.* p. 251, 1902.

Tapirus americanus, Moore, *Proc. Zool. Soc.* 1859, p. 51, nec Cuvier.

Tapirus (*Elasmognathus*) *bairdi*, J. C. Merriam, *Univ. Calif. Bull. Dep. Geol.* vol. vii, p. 175, 1913.

Tapirella bairdi, Palmer, *Science*, ser. 2, vol. xvii, p. 873, 1903; Elliot, *Mamm. Mid. Amer. (Field Mus. Zool. Pub. vol. iv)* p. 87, 1904.

BAIRD'S TAPIR.

Type of *Elasmognathus* and *Tapirella*.

Typical locality, Panama: the range extends northwards to southern Mexico.

67. 8. 31. 1. (1500, *b*). Immature, mounted, and skull. Veragua; collected by O. Salvin, Esq. *Purchased*, 1867.

68. 3. 21. 22 (1500, *c*). Young skin, and skeleton. Same locality and collector. *Purchased*, 1868.

71. 10. 20. 6 (1500, *d*). Young, mounted, and skeleton. Nicaragua. *Purchased (Zoological Society)*, 1871.

75. 2. 26. 16. Foetus in spirit. Coban, Guatemala; collected by O. Salvin, Esq. *Purchased*, 1875.

79. 9. 17. 1 (1500, *f*). Skull. Costa Rica. *Purchased*, 1879.

79. 9. 17. 2 (1500, *h*). Skeleton, female. Pacuar, Atlantic coast of Costa Rica; collected by J. J. Cooper. *Purchased*, 1879.

86. 11. 12. 1 (1500, *g*). Skull. British Honduras. *Presented by Dr. von Twyl*, 1886.

V. TAPIRUS (TAPIRELLA) DOWI.

Elasmognathus dowi, *Gill, Amer. J. Sci.* vol. 1, p. 142, 1870; *Alston, Proc. Zool. Soc.* 1879, p. 666, *Biol. Centr.-Amer.*, *Mamm.* p. 104, pl. viii, figs. 3-5 and ix; *Hatcher, Amer. J. Sci.* 1896, vol. i, p. 175.

Tapirus dowi, *Sclater, Proc. Zool. Soc.* 1882, p. 391, pl. xxiii; *Flower, The Horse*, p. 46, 1891; *Flower and Lydekker, Study of Mammals*, p. 371, 1891; *Lydekker, Great and Small Game of Europe, etc.* p. 391, 1901; *Beddard, Cambridge Nat. Hist., Mamm.* p. 251, 1902.

Tapirella dowi, *Palmer, Science*, ser. 2, vol. xvii, p. 873, 1903; *Elliot, Mamm. Mid. Amer. (Field Mus. Zool. Pub.* vol. iv) p. 88, 1904.

Dow's TAPIR.

Typical locality Guatemala: the range also includes Nicaragua.

67. 6. 24. 2 (1500, *a*). Skull. Volcan Viejo, Nicaragua. Collected by Capt. J. Dow.

Presented by Dr. P. L. Sclater, 1867.

72. 7. 26. 1 (1500, *c*). Immature, mounted. Corinto, west coast of Nicaragua.

Purchased (Zoological Society), 1872.

FAMILY III.—RHINOCEROTIDÆ.

Genus RHINOCEROS.

Rhinoceros, *Linn., Syst. Nat.* ed. 10, vol. i, p. 56, 1758, ed. 12, vol. i, p. 104, 1766; *Flower, Proc. Zool. Soc.* 1876, p. 454, *The Horse*, p. 56, 1891; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157.

1. SUBGENUS RHINOCEROS.

Rhinoceros, *Linn., op. cit., partim*; *Flower, Proc. Zool. Soc.* 1876, p. 454, *The Horse*, p. 56, 1891; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 416, 1884; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 265, 1900; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157.

Eurhinoceros, *Gray, Proc. Zool. Soc.* 1867, p. 1009.

Skin thrown into heavy folds; one horn; * front teeth fully developed; skull short, with the occipital plane much

* The alleged existence of a two-horned species allied to *R. unicornis* in the Singpho district, east of Assam, is noticed in *Game Animals of India*, p. 82.

inclined forwards, and the auditory meatus closed inferiorly by the fusion of the post-tympanic with the post-glenoid process.

Asiatic.

I. RHINOCEROS UNICORNIS (Fig. 17).

Rhinoceros unicornis, *Linn.*, *Syst. Nat.* ed. 10, vol. i, p. 56, 1758, ed. 12, vol. i, p. 104, 1766; *Hodgson*, *Proc. Zool. Soc.* 1834, p. 98;



FIG. 17.—HEAD OF A GREAT INDIAN RHINOCEROS
(*Rhinoceros unicornis*).

Shot by H.M. King George V. in Nepal in 1911, and presented by His Majesty in 1913 (13. 10. 19. 1).

Gray, *List Mamm. Brit. Mus.* p. 186, 1843, *Proc. Zool. Soc.* 1867, p. 1010, *Cat. Carnivora, etc. Brit. Mus.* 302, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 46, pls. xiv and xv, 1873;

Gerrard, Cat. Bones Mamm. Brit. Mus. p. 281, 1862; *Sclater, Proc. Zool. Soc.* 1871, p. 8, *Trans. Zool. Soc.* vol. ix, p. 645, pl. xiv, 1876; *Flower, Proc. Zool. Soc.* 1876, p. 454, *The Horse*, p. 56, 1891; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 416, 1884; *Flower and Lydekker, Study of Mammals*, p. 404, 1891; *W. L. Sclater, Cat. Mamm. Ind. Mus.* p. 202, 1891; *Blanford, Fauna Brit. India*, p. 472, 1891; *Lydekker, Horns and Hoofs*, p. 378, 1893, *Great and Small Game of India, etc.* p. 18, 1909, *Game Animals of India, etc.* p. 26, 1907, *Suppl.* p. 2, 1911, *Cat. Hume Bequest Brit. Mus.* p. 41, 1913; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157; *Ward, Records of Big Game*, ed. 6, p. 463, 1910, ed. 7, p. 462, 1914; *Marx and Koch, Ber. Senckenberg. Ges.* vol. xli, p. 161, 1910.

Rhinoceros indicus, *Cuvier, Menag. Mus. Hist. Nat. Paris*, 1801, *Règne Animal*, vol. i, p. 237, 1817, *Griffith, Animal Kingdom*, vol. iii, p. 336, vol. v, p. 290, 1827; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 164, pls. viii and ix, 1837; *Schinz, Synop. Mamm.* p. 333, 1844; *Blyth, Journ. Asiat. Soc. Bengal*, vol. xxx, p. 194, 1861, vol. xxxi, p. 151, 1862, *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 136, 1863; *Jerdon, Mamm. India*, p. 232, 1867; *Lydekker, Journ. Asiat. Soc. Bengal*, vol. xlix, p. 135, pl. vii, 1880; *Sterndale, Mamm. India*, p. 407, 1884; *Percy, Big Game Shooting (Badminton Libr.)*, vol. ii, p. 234, 1894; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 265, 1900; *Beddard, Cambridge Nat. Hist., Mamm.* p. 255, 1902.

Rhinoceros asiaticus, *Blumenbach, Handbuch Naturgesch.* ed. 12, p. 107, 1830.

Rhinoceros (Eurhinoceros) unicornis, *Gray, Proc. Zool. Soc.* 1867, p. 1009.

Rhinoceros stenocephalus, *Gray, Proc. Zool. Soc.* 1867, p. 1018, *Cat. Carnivora, etc. Brit. Mus.* p. 310, 1869.

GREAT INDIAN RHINOCEROS; GAINDA.

Type of genus and of *Eurhinoceros*.

Typical locality probably the sub-Himalayan Tarai of Assam.

II. RHINOCEROS SONDAICUS.

Rhinoceros sondaicus, *Desmarest, Mammalogie*, vol. ii, p. 399, 1822; *Horsfield, Zool. Research. Java*, 1824, with pl.; *Griffith, Animal Kingdom*, vol. v, p. 291, 1827; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 174, pl. x, 1837; *Müller and Schlegel, Verh. Nat. Gesch. Nederland. Ind.* vol. i, p. 184, pl. xxxiii, 1844; *Blyth, Journ. Asiat. Soc. Bengal*, vol. xxxi, p. 151, 1862; *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 137, 1863, *List Mamm. Birds Burma*, p. 50, 1875; *Jerdon, Mamm. India*, p. 234, 1867; *Sclater, Proc. Zool. Soc.* 1874, p. 182, pl. xxviii, *Trans. Zool. Soc.* vol. ix, p. 649, pl. xcvi, 1876; *Fraser, Journ. Asiat. Soc. Bengal*, vol. xlv, p. 10, pl. v, 1875; *Flower, Proc. Zool. Soc.* 1876, p. 454, *The Horse*, p. 58, 1891; *Ball, Proc. Asiat. Soc. Bengal*, 1877, p. 170; *Rainey, ibid.*, 1878, p. 139; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 418, 1884;

Sterndale, Mamm. India, p. 410, 1885; *Flower and Lydekker, Study of Mammals*, p. 405, 1891; *W. L. Sclater, Cat. Mamm. Ind. Mus.* pt. ii, p. 202, 1891; *Blanford, Fauna Brit. India, Mamm.* p. 475, 1891; *Lydekker, Horns and Hoofs*, p. 381, 1893, *Great and Small Game of India, etc.* p. 25, 1900, *Game Animals of India, etc.* p. 34, 1907; *Percy, Big Game Shooting (Badminton Libr.)*, vol. ii, p. 234, 1894; *Jentink, Notes Leyden Mus.* vol. xvi, p. 231, 1894; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 265, 1900; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157; *Beddard, Cambridge Nat. Hist., Mamm.* p. 256, 1902; *Ward, Records of Big Game*, ed. 6, p. 65, 1913, ed. 7, p. 64, 1914.

Rhinoceros javanicus, *F. Cuvier, Hist. Nat. Mamm.* vol. iv, livr. 45, pl. 309, 1824; *Gray, Proc. Zool. Soc.* 1867, p. 1009, *Cat. Carnivora, etc. Brit. Mus.* p. 300, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 45, 1873; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 281, 1862.

Rhinoceros inermis, *Lesson, Hist. Nat. Anim.* vol. i, p. 514, 1848; *Peters, Monatsber. Ak. Berlin*, 1877, p. 68, pls. i-iii.

Rhinoceros nasalis, *Gray, Proc. Zool. Soc.* 1867, p. 1012, *Cat. Carnivora, etc. Brit. Mus.* p. 304, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 47, 1873.

Rhinoceros floweri, *Gray, Proc. Zool. Soc.* 1867, p. 1015, *Cat. Carnivora, etc. Brit. Mus.* p. 304, 1869.

2. SUBGENUS DICERORHINUS.

Dicerorhinus, *Gloger, Handbuch Naturgesch.* p. 125, 1841; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157.

Ceratorhinus, *Gray, Proc. Zool. Soc.* 1867, p. 1021; *Flower, Proc. Zool. Soc.* 1876, p. 443, *The Horse*, p. 58, 1891; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 421, 1884; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 365, 1900.

Skin with heavy folds; front teeth fully developed; skull generally as in typical subgenus, but with an open groove below the auditory meatus, due to the wide separation of the post-tympanic from the post-glenoid process. Asiatic.

III. RHINOCEROS (DICERORHINUS) SUMATRENSIS.

Rhinoceros sumatrensis, *Cuvier, Règne Animal*, vol. i, p. 240, 1817; *Griffith, Animal Kingdom*, vol. iii, p. 336, 1827; *Sclater, Proc. Zool. Soc.* 1872, p. 700, pl. lxvii, *Trans. Zool. Soc.* vol. ix, p. 650, pl. xcvi, 1876; *Anderson, Proc. Zool. Soc.* 1872, p. 120; *Bartlett, ibid.* 1873, p. 104, pl. xi; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 418, 1884; *Beddard and Treves, Proc. Zool. Soc.* 1889, p. 7; *Flower, The Horse*, p. 58, 1891; *Flower and Lydekker, Study of Mammals*, p. 406, 1891; *W. L. Sclater,*

- Cat. Mamm. Ind. Mus.* pt. ii, p. 204, 1891; *Blanford, Fauna Brit. India, Mamm.* p. 476, 1891; *Lydekker, Horns and Hoofs*, p. 382, 1893, *Great and Small Game of India, etc.* p. 27, 1900, *Game Animals of India, etc.* p. 36, 1907; *Beddard, Cambridge Nat. Hist., Mamm.* p. 256, 1902; *Elliot, Cat. Mamm. Field Mus. (Field Mus. Zool. Pub. vol. viii)* p. 105, 1907; *Cabrera, Bol. Soc. españ. Hist. Nat.* 1911, p. 141.
- Rhinoceros sumatranus*, *Raffles, Trans. Linn. Soc.* vol. xiii, p. 268, 1820; *Desmarest, Mammalogie*, vol. ii, p. 401, 1822; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 179, pl. xi, 1837; *Müller and Schlegel, Verh. Nat. Gesch. Nederland. Ind.* vol. i, p. 190, pl. xxxiv, 1840; *Blyth, Journ. Asiat. Soc. Bengal*, vol. xxxi, p. 151, 1862, *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 137, 1863; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 282, 1862; *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. x, p. 208, 1872.
- Rhinoceros sondaicus*, *F. Cuvier, Hist. Nat. Mamm.* livr. 47, pl. cccviii, 1825, nec *Desmarest*, 1822.
- Rhinoceros bicornis sumatrensis*, *Griffith, Animal Kingdom*, vol. v, p. 291, 1827.
- Dicerorhinus sumatrensis*, *Gloger, Handbuch Naturgesch.* p. 125, 1841; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 157.
- Ceratorhinus sumatranus*, *Gray, Proc. Zool. Soc.* 1867, p. 1021, *Cat. Carnivora, etc. Brit. Mus.* p. 313, 1867, *Ann. Mag. Nat. Hist.* ser. 4, vol. xi, p. 357, 1873, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 47, 1873.
- Ceratorhinus sumatrensis*, *Garrod, Proc. Zool. Soc.* 1873, p. 92; *Blyth, Cat. Mamm. and Birds Burma*, p. 52, 1875; *Flower, Proc. Zool. Soc.* 1876, p. 455, 1880, p. 69; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 365, 1900.
- Rhinoceros, vel Ceratorhinus, sumatrensis*, *Sterndale, Mamm. India*, p. 412, 1885.
- Rhinoceros (Ceratorhinus) sumatrensis*, *Ward, Records of Big Game*, ed. 6, p. 466, 1910, ed. 7, p. 465, 1914.

Typical locality Sumatra.

A.—*Rhinoceros sumatrensis sumatrensis*.

- Rhinoceros sumatrensis typicus*, *Lydekker, Great and Small Game of India, etc.* p. 28, 1900.

B.—*Rhinoceros sumatrensis blythi*.

- Ceratorhinus niger*, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. xi, p. 357, 1873, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 48, 1873, nec *Rhinoceros niger*, *Schinz*, 1845.
- Ceratorhinus crossii*, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. x, p. 209, 1872, nec 1854.
- Ceratorhinus blythi*, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. xi, p. 360, 1873, *Hand-List Mamm. Brit. Mus.* p. 50, 1873.
- Rhinoceros sumatrensis niger*, *Lydekker, Game Animals of India, etc.* p. 39, 1907.

Typical locality Tenasserim.

Type in Indian Museum, Calcutta.

C. niger is typified by a specimen from the Malay Peninsula referred to below; *C. blythi* by skulls from Tenasserim figured by Blyth, *Journ. Asiat. Soc. Bengal*, vol. xxxi, pl. iii, figs. 2 and 3, as *R. sumatranus*, and now in the Indian Museum. These skulls, together with a third one from the same district (figured by Blyth *op. cit.*, fig. 1, and identified by Gray with his *C. niger*), are entered in W. L. Sclater's *Catalogue*, without mention of their being types.

C.—*Rhinoceros sumatrensis lasiotis*.

(?) *Rhinoceros crossei*, Gray, *Proc. Zool. Soc.* 1854, p. 251; Blyth, *Proc. Zool. Soc.* 1861, p. 307, *Journ. Asiat. Soc. Bengal*, vol. xxxi, p. 156, 1862; Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 282, 1862.

(?) *Ceratorhinus crossei*, Blyth, *Ann. Mag. Nat. Hist.* ser. 4, vol. x, p. 399, 1872, *Cat. Mamm. Birds Burma*, p. 52, 1875, *partim*.

Rhinoceros lasiotis, Sclater, *Proc. Zool. Soc.* 1872, p. 493, pl. xxiii, *Trans. Zool. Soc.* vol. ix, p. 652, pl. xcviii, 1876; Flower, *Proc. Zool. Soc.* 1878, p. 634; Flower and Lydekker, *Study of Mammals*, p. 406, 1891; W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 204, 1891; Lydekker, *Horns and Hoofs*, p. 384, 1893.

Ceratorhinus lasiotis, Flower, *Proc. Zool. Soc.* 1876, p. 455.

Rhinoceros, *vel* *Ceratorhinus* (*crossi* ?) *lasiotis*, Sterndale, *Mamm. India*, p. 411, 1885.

Rhinoceros sumatrensis lasiotis, Lydekker, *Great and Small Game of India, etc.* p. 27, 1900, *Game Animals of India, etc.* p. 38, 1907; Ward, *Records of Big Game*, ed. 6, p. 466, 1910, ed. 7, p. 465, 1914.

Dicerorhinus sumatrensis lasiotis, Thomas, *Proc. Zool. Soc.* 1901, vol. ii, p. 157.

Typical locality Chittagong.

3. SUBGENUS DICEROS.

Diceros, Gray, *Med. Repository*, vol. xv, p. 306, 1821; Thomas, *Proc. Zool. Soc.* 1901, p. 157; Heller, *Smithson. Misc. Collect.* vol. lxi, no. 1, p. 19, 1913.

Coelodonta, Bronn, *Neues Jahrb. Min.* 1831, p. 51.

Opsiceros, Gloger, *Handbuch Naturgesch.* p. 125, 1841.

Atelodus, Pomel, *Ann. Sci. Lit. Auvergne*, vol. xxvi, p. 114, 1853, *Cat. Méth. Vert. Foss. Loire*, p. 78, 1854; Flower, *Proc. Zool. Soc.* 1876, 455; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 423, 1884; Osborn, *Bull. Amer. Mus. Nat. Hist.*

vol. xiii, p. 264, 1900; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 297, 1900.

Rhinaster, Gerrard, Cat. Bones Mamm. Brit. Mus. p. 282, 1862; *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 316, 1869.

Keitloa, Gray, Proc. Zool. Soc. 1867, p. 1025.

Ceratotherium, Gray, Proc. Zool. Soc. 1867, p. 1027, *Cat. Carnivora, etc. Brit. Mus.* p. 319, 1869; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 297, 1900; *Heller, Smithson. Misc. Collect.* vol. lxi, no. 1, p. 19, 1913.

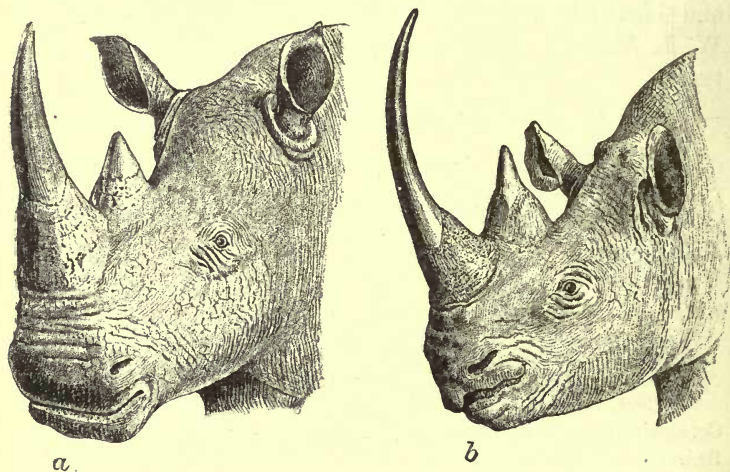


FIG. 18.—HEADS OF (a) WHITE RHINOCEROS (*Rhinoceros [Diceros] simus*), and (b) BLACK RHINOCEROS (*R. [D.] bicornis*).

Skin more or less completely devoid of heavy folds; front teeth rudimentary or wanting; skull more or less elongated, with the occipital plane inclined backwards, and the auditory meatus open inferiorly. African.

IV. RHINOCEROS (DICEROS) BICORNIS

(Figs. 18 b, 19).

Rhinoceros bicornis, Linn. Syst. Nat. ed. 10, vol. i, p. 56, 1758, ed. 12, vol. i, p. 104, 1766; *Sparrman, K. Svenska Vet.-Ak. Handl.* 1778, pl. ix; *Gmelin, Linn.'s Syst. Nat.* vol. i, p. 57, 1788; *A. Smith, Illustr. S. African Zool.* vol. i, pl. ii, 1838; *Sclater, Proc. Zool. Soc.* 1868, p. 529, pl. xli, 1886, p. 144, pl. xvi, *Trans. Zool. Soc.* vol. ix, p. 655, pl. xcix, 1876; *Selous, Proc. Zool. Soc.* 1881, p. 725, *A Hunter's Wanderings in S. Africa*, ed. 18, 1890; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 423, 1884; *Bocage, J. Sci. Lisboa*, vol. v, p. 23, 1890; *Flower and Lydekker, Study of Mammals*, p. 408, 1891; *W. L. Sclater, Cat. Mamm.*

Ind. Mus. pt. ii, p. 205, 1891, *Fauna S. Africa, Mamm.* p. 303, 1900; *Flower, The Horse*, p. 59, 1901; *Nicholls and Eglington, Sportsman in S. Africa*, p. 62, 1892; *Lydekker, Horns and Hoofs*, p. 386, 1893, *Game Animals of Africa*, p. 25, 1908, *Proc. Zool. Soc.* 1911, p. 958; *Jackson, Big Game Shooting (Badminton Libr.)*, vol. i, p. 25, 1894; *Matschie, Säugeth. Deutsch-Ost.-Afrika*, p. 97, 1895; *Bryden, Nature and Sport in S. Africa*,

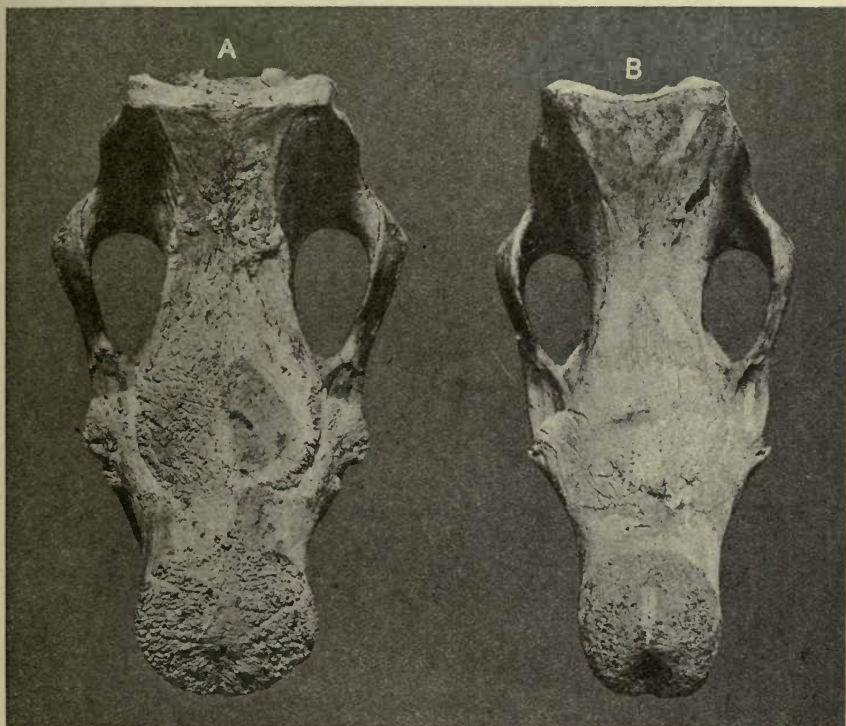


FIG. 19.—UPPER ASPECT OF SKULL OF A, *Rhinoceros bicornis*, from East Africa (7. 2. 26. 1); and B, *R. bicornis somaliensis*, from Bulhar, Somaliland (11. 8. 2. 20).

From Lydekker, *Proc. Zool. Soc.* 1911, p. 958.

p. 187, 1897; *Kirby, Great and Small Game of Africa*, p. 85, 1899; *Beddard, Cambridge Nat. Hist. Mamm.* p. 257, 1902; *Drake-Brockman, Mamm. Somali.* p. 106, 1910.

Rhinoceros bicornis capensis, *Camper, Acta Ac. Petrop.* 1777, pt. 2, p. 193, pls. iii-v.

Rhinoceros africanus, *Desmarest, Mammalogie*, vol. ii, p. 400, 1822; *Griffith, Animal Kingdom*, vol. iii, p. 337, vol. v, p. 2911, 1827; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 182, pl. xii, 1837; *Harris, Wild Anim. S. Africa*, pl. xi, 1840; *Peters, Reise*

- Mossambique, Säugeth.* p. 180, 1852; *Heuglin, Faun. Rothen Meeres, Peterm. Mittheil.* 1861, p. 15; *Duvernoy, Arch. Mus. Paris*, vol. vii, pl. viii, 1854; *Gaudry, Enchainements, Mamm. Test.* p. 53, 1878.
- Diceros bicornis*, *Gray, Med. Repository*, vol. xv, p. 306, 1821; *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 137; *Rothschild, Powell-Cotton's Abyssinia*, p. 482, 1902; *Roosevelt, African Game Trails*, p. 486, 1910; *Cabrera, Cat. Met. Mam. Mus. Madrid*, p. 134, 1912; *Heller, Smithsonian. Misc. Collect.* vol. lxi, no. 1, p. 19, 1913; *Allen, Bull. Mus. Harvard*, vol. lviii, p. 324, 1914.
- Rhinoceros keitloa* (or *ketloa*), *A. Smith, Cat. Mamm. S. African Mus.* p. 7, 1837; *Illustr. Zool. S. Africa*, pl. i, 1838; *Schinz, Synop. Mamm.* p. 337, 1845; *Blanford, Geol. and Zool. Abyssinia*, p. 243, 1870.
- Opsiceros bicornis*, *Gloger, Handbuch Naturgesch.* p. 121, 1841.
- Rhinoceros niger*, *Schinz, Synop. Mamm.* vol. ii, p. 335, 1845.
- Rhinoceros camperi*, *Schinz, Synop. Mamm.* vol. ii, p. 335, 1845, *Monogr. Säugeth.* pl. i, 1848.
- Atelodus bicornis*, *Pomel, Ann. Sci. Lit. Auvergne*, vol. xxvi, p. 114, 1853; *Flower, Proc. Zool. Soc.* 1876, p. 455; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 264, 1900.
- Rhinaster bicornis*, *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 282, 1862; *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 316, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 51, 1873.
- Rhinaster keitloa* (with vars. *k. keitloa* and *k. camperi*), *Gray, Proc. Zool. Soc.* 1867, p. 1025, *Cat. Carnivora, etc. Brit. Mus.* p. 317, 1867, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 51, 1873.
- Keitloa bicornis*, *Gray, Proc. Zool. Soc.* 1867, p. 1025.
- Atelodus keitloa*, *Flower, Proc. Zool. Soc.* 1876, p. 455.
- Rhinoceros (Diceros) bicornis*, *Ward, Records of Big Game*, ed. 6, p. 467, 1910, ed. 7, p. 466, 1914.
- Biceros bicornis*, *Virchow, Sitzber. k. Ak. Wiss. Berl.* 1910, p. 848.

BLACK RHINOCEROS; ZWAART RHINASTER; KEITLOA.

Typical locality Cape Colony.

Type of *Diceros*, *Opsiceros*, *Atelodus*, and *Rhinaster*.

A.—*Rhinoceros bicornis bicornis*.

Typical locality Cape Colony.

B.—*Rhinoceros bicornis holmwoodi*.

- Rhinoceros holmwoodi*, *Sclater, Proc. Zool. Soc.* 1893, p. 517; *Bryden, Great and Small Game of Africa*, p. 67, 1899.
- Rhinoceros bicornis holmwoodi*, *Lydekker, Game Animals of Africa*, p. 27, 1908; *Ward, Records of Big Game*, ed. 6, p. 467, 1910, ed. 7, p. 466, 1914.

Typical locality some part of East Africa inland of Zanzibar.

Type in collection.

C.—*Rhinoceros bicornis somaliensis* (Fig. 19 B).

Rhinoceros bicornis somaliensis, *Potocki, Sport in Somaliland*, p. 82, 1900; *Lydekker, Game Animals of Africa*, p. 27, 1908, *Proc. Zool. Soc.* 1911, p. 960.

Diceros bicornis somaliensis, *Allen, Bull. Amer. Mus. Nat. Hist.* vol. xxxiii, p. 340, 1914.

Typical locality Somaliland.

Type, the figure in Count Potocki's work.

D.—*Rhinoceros bicornis cucullatus*.

Rhinoceros cucullatus, *Wagner, Schreber's Säugethiere*, vol. vi, p. 317, pl. cccxvii, *F*, 1835; *Heuglin, Fauna Rothen Meeres, Peterm. Mittheil.* 1861, p. 15; *Fitzinger, Sitzber. k. Ak. Wiss. Wien*, 1867, p. 584.

Typical locality Abyssinia.

V. RHINOCEROS (DICEROS) SIMUS (Figs. 18 a, 20).

Rhinoceros simus, *Burchell, Bull. Soc. Philom.* 1817, p. 96, *Travels in S. Africa*, vol. ii, p. 75, 1824; *Jardine, Naturalist's Libr., Mamm.* vol. v, p. 186, pl. xiii, 1837; *A. Smith, Illustr. Zool. S. Africa*, vol. i, pl. xix, 1838; *Duvernoy, Arch. Mus. Paris*, vol. vii, pls. ii, iii, viii, 1854; *Sclater, Proc. Zool. Soc.* 1864, p. 100, 1886, p. 143, pl. xvi, fig. 1, 1903, vol. ii, p. 194; *Peters, Säugeth. Mossambique*, p. 180, 1852; *Heuglin, Fauna Rothen Meeres, Peterm. Mittheil.* 1861, p. 15; *Fitzinger, Sitzber. k. Ak. Wiss. Wien*, 1867, p. 583; *Hartmann, Zeitschr. Ges. Erdkunde*, vol. iii, p. 365, 1868; *Selous, Proc. Zool. Soc.* 1881, p. 725, pl. lx, *A Hunter's Wanderings in S. Africa*, p. 190, 1890, *Great and Small Game of Africa*, p. 52, 1899; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 424, 1884; *Jentink, Notes Leyden Mus.* vol. xii, p. 241, 1890, *C.-R. Congrès Zool. Moscou*, vol. ii, p. 92, 1893; *Flower, The Horse*, p. 60, 1891; *Flower and Lydekker, Study of Mammals*, p. 409, 1891; *W. L. Sclater, Cat. Mamm. Ind. Mus.* pt. 2, p. 206, 1891, *Fauna S. Africa*, *Mamm.* vol. i, p. 299, 1900; *Nicolls and Eglington, Sportsman in S. Africa*, p. 64, 1892; *Millais, Proc. Zool. Soc.* 1893, p. 614; *Coryndon, ibid.* 1894, p. 329, pl. xviii; *Lydekker, Horns and Hoofs*, p. 388, 1894, *Game Animals of Africa*, p. 35, 1908; *Bryden, Nature and Sport in S. Africa*, p. 182, 1897; *Beddard, Cambridge Nat. Hist., Mamm.* p. 257, 1902; *Gibbons, Africa from South to North*, vol. ii, p. 221, 1904; *Schouteden, Rev. Zool. Africaine*, vol. i, p. 118, 1911.

- Rhinoceros burchellii*, *Desmarest, Mammalogie*, vol. ii, p. 401, 1822.
Rhinoceros camus, *Griffith, Animal Kingdom*, vol. v, p. 746, 1827.
Opsiceros simus, *Gloger, Handbuch Naturgesch.* p. 125, 1841.
Rhinoceros oswellii, *Gray, Proc. Zool. Soc.* 1853, p. 46, *Ann. Mag. Nat. Hist.* ser. 2, vol. xv, p. 142, 1855; *Andersson, Lake Ngami*, p. 386, 1856.
Atelodus simus, *Pomel, Act. Soc. Lit. Auvergne*, vol. xxvi, p. 114, 1853; *Flower, Proc. Zool. Soc.* 1876, p. 455; *Osborn, Bull. Amer. Mus. Nat. Hist.* vol. xiii, p. 264, 1900.
Rhinaster simus, *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 282, 1862.
Rhinaster oswellii, *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 283, 1862.
Ceratotherium simum, *Gray, Proc. Zool. Soc.* 1867, p. 1027, *Cat. Carnivora, etc. Brit. Mus.* p. 319, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 52, 1873; *Heller, Smithsonian. Misc. Collect.* vol. lxi, no. 1, p. 19, 1913.
Ceratotherium oswellii, *Gray, Proc. Zool. Soc.* 1867, p. 1029, *Cat. Carnivora, etc. Brit. Mus.* p. 322, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 52, 1873.
Atelodus oswelli, *Flower, Proc. Zool. Soc.* 1876, p. 556.
Diceros simus, *Thomas, Nature*, vol. lxii, p. 509, 1900, *Proc. Zool. Soc.* 1901, vol. ii, p. 158.
Coelodonta (?) simus, *Thomas, Proc. Zool. Soc.* 1901, vol. ii, p. 158.
Rhinoceros (Diceros) simus, *Ward, Records of Big Game*, ed. 6, p. 473, 1910, ed. 7, p. 472, 1914.

WHITE RHINOCEROS; BURCHELL'S RHINOCEROS; SQUARE-MOUTHED RHINOCEROS; WHITE RHINASTER.

Typical locality Cape Colony.

The type of *Ceratotherium*.

A.—*Rhinoceros simus simus*.

Typical locality Cape Colony: the range extends as far north as the Zambesi; with the exception of a few individuals which still survive, under Government protection in Zululand, this race is extinct.

General characters those of the species.

B.—*Rhinoceros simus cottoni* (Fig. 20).

- Rhinoceros simus cottoni*, *Lydekker, Field*, vol. cxi, p. 317, 1908, *Game Animals of Africa*, p. 38, 1908; *Trouessart, C.-R. Ac. Sci. Paris*, vol. cxlvii, p. 1352, 1908, *Proc. Zool. Soc.* 1909, p. 198, pl. xxix; *Berger, Sitzber. Ges. nat. Freunde*, 1910, p. 344, *In Afrikas Wildkammern*, p. 430, 1910; *Ward, Records of Big Game*, ed. 6, p. 473, 1910, ed. 7, p. 472, 1914.

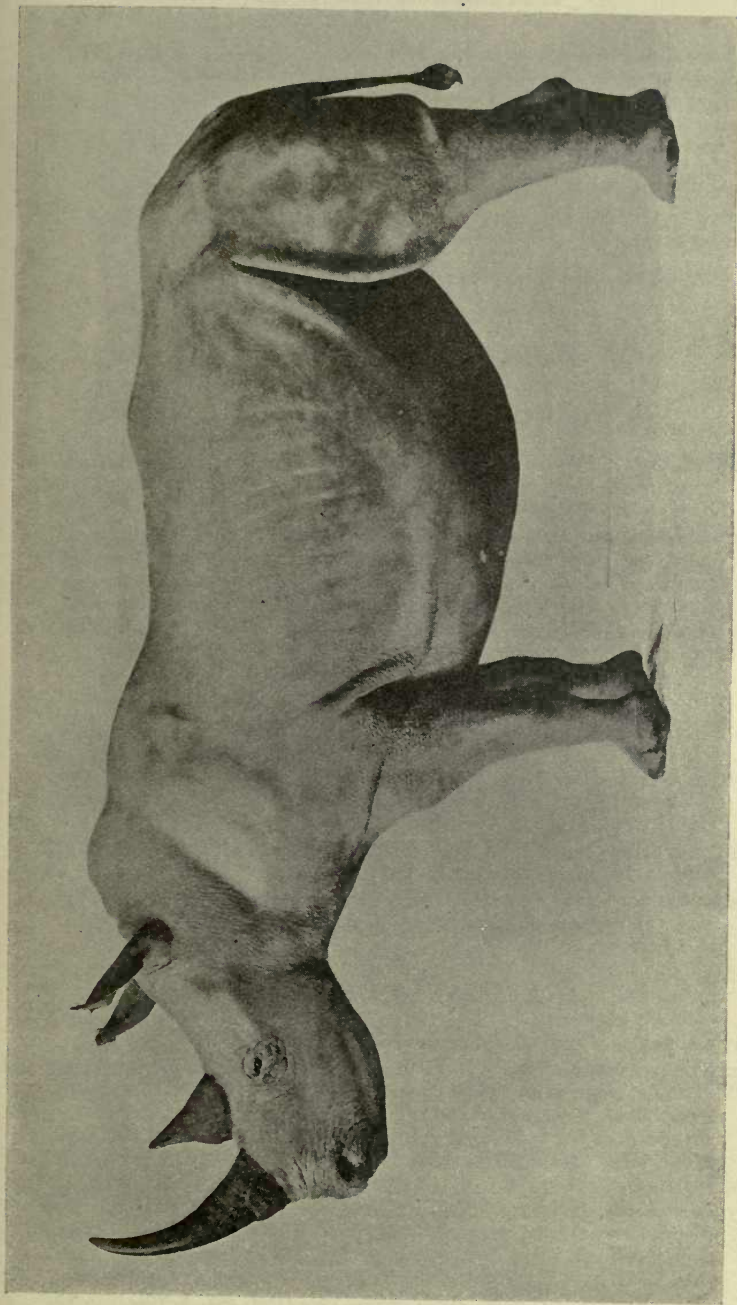


FIG. 20.—MALE NILE WHITE RHINOCEROS (*Rhinoceros simus cottoni*).
Shot by Col. Theodore Roosevelt in the Lado Enclave, now in the U.S. National Museum, Washington.
From Heller, *Smithson. Misc. Coll.* vol. 61, No. 1, 1913.

Diceros simus cottoni, *Roosevelt, African Game Trails*, p. 486, 1910.
Ceratotherium simum cottoni, *Heller, Smithsonian Misc. Collect.* vol. lxi,
 no. 1, p. 19, 1913.

Typical locality Lado.

Type in collection.

SUBORDER III.—HYRACOIDEA.

FAMILY PROCAVIIDÆ.

Genus PROCAVIA.

Procavia, *Storr, Prodromus Meth. Mamm.* p. 40, pl. B, 1780; *Lataste, Ann. Mus. Genova*, ser. 2, vol. iv, p. 5, 1886; *Thomas, Proc. Zool. Soc.* 1892, p. 51.

Hyrax, *Hermann, Tab. Affin. Anim.* p. 115, 1783; *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 283, 1869; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 438, 1884; *Flower and Lydekker, Study of Mammals*, p. 416, 1891; *Beddard, Proc. Biol. Soc.* 1909, p. 162; *Christy, ibid.* 1911, p. 672 (habits); *Lubosch, Arch. mikr. Anat.* vol. lxxviii, p. 353, 1911.

1. SUBGENUS PROCAVIA.

Hyrax, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 40, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 283, 1869; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 438, 1884.

Euhyrax, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 46, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 289, 1869.

Heterohyrax, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 50, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 294, 1869.

I. PROCAVIA CAPENSIS.

Cavia capensis, *Pallas, Spicil. Zool.* fasc. ii, p. 32, 1767.

Procavia capensis, *Storr, Prodromus Meth. Mamm.* p. 40, 1780; *Lataste, Ann. Mus. Genova*, ser. 2, vol. i, p. 5, 1886; *Woodward, Proc. Zool. Soc.* 1892, p. 50; *Thomas, ibid.* p. 60; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 310, 1900; *Cabrera, Cat. Met. Mam. Mus. Madrid*, p. 135, 1912; *Brauer, Sitzber. Ges. nat. Freunde*, 1914, p. 35.

Hyrax capensis, *Hermann, Tab. Affin. Anim.* p. 115, 1783; *Schreber, Säugthiere*, vol. iv, pl. cexl, 1784, p. 920, 1792; *Griffith, Animal Kingdom*, vol. iii, p. 338, vol. v, p. 292, 1827; *Owen, Proc. Zool. Soc.* 1832, p. 202; *Reid, ibid.* 1835, p. 13; *Gray, List Mamm. Brit. Mus.* p. 187, 1843, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 42,

1868, *Cat. Carnivora, etc. Brit. Mus.* p. 285, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 38, 1873; Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 283, 1862; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 438, 1884; Flower and Lydekker, *Study of Mammals*, p. 488, 1891; W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 208, 1891, p. 310, 1900; Beddard, *Cambridge Nat. Hist., Mamm.* p. 233, 1902.

- (?) *Hyrax semicircularis*, Gray, *Cat. Carnivora, etc. Brit. Mus.* p. 285, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 44, pl. xii, fig. 2, 1873.

KLIP-DAS (Dutch); DASSIE (English).

The type species.

Typical locality Cape Colony.

According to Brauer, the races of *P. capensis* are distinguishable as follows:—

- A. Under-parts yellowish brown, often somewhat ochery.
 - a. Back nearly uniform brown, with the light bands very short; length of m^1 , 7·3 to 8 mm.; basicranial length 84·5 to 93 mm. *P. c. capensis*.
 - b. Back bright yellowish brown, grizzled with whitish yellow, and with the light bands long; length of m^1 , 6·8 to 7·5 mm.; basicranial length 80 to 83·3 mm. *P. c. windhuki*.
- B. Under-parts dirty white or grey.

Back hair-brown to broccoli-brown; length of m^1 , 6·8 to 7·6 mm.; basicranial length 71·3 to 79·9 mm. *P. c. reuningi*.
- c. Under-parts dirty white or grey with a yellowish or ochery tinge.

Back yellowish brown, in parts, especially posteriorly, more ochery; length of m^1 , 6·5 to 7·1 mm. *P. c. marlothi*.
- d. Under-parts ochery.
 - a. Back ochery grizzled with white; length of m^1 , 6·5 to 6·8 mm.; basicranial length 75·4 mm. *P. c. schultzei*.
 - b. Back yellowish brown, with an ochery tinge; flanks mainly silver-grey; length of m^1 , 6·8 to 7·2 mm.; basicranial length, 77·2 to 78·7 mm. *P. c. waterbergensis*.

A.—*Procavia capensis capensis*.

Typical locality Cape Colony.

Under-parts yellowish brown, frequently almost ochery; back almost uniformly brown, with the light bands of very limited extent; length of m^1 , 7.3 to 8 mm.; basicranial length, 84.5 to 93 mm.

B.—*Procavia capensis windhuki*.

Procavia capensis windhuki, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 30.

Typical locality Windhuk district, S.W. Africa.

Type in Berlin Museum.

General colour lighter than in typical race, being light yellowish brown grizzled with whitish yellow, and the pale bands much longer; dorsal patch black; under-parts dusky yellowish brown, with a somewhat ochery tinge; length of m^1 , 6.8 to 7.5 mm.; basicranial length, 80 to 83.3 mm.

C.—*Procavia capensis reuningi*.

Procavia capensis reuningi, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 31.

Typical locality Windhuk district, S.W. Africa.

Type in Berlin Museum.

General colour hair-brown or broccoli-brown, with a short darker streak on hind part of back, and a black dorsal patch; under-parts dirty white or dirty grey; length of m^1 , 6.8 to 7.6 mm.; basicranial length, 71.3 to 79.9 mm.

D.—*Procavia capensis marlothi*.

Procavia capensis marlothi, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 33.

Typical locality Clanwilliam, Northern Cape Colony.

Type in Berlin Museum.

Differs from the preceding races by the under-parts being dirty white or grey, with a yellowish or ochery tinge; back yellowish brown, tending in places, especially behind, to ochery; length of m^1 , 6.5 to 7.1 mm.

E.—Procavia capensis schultzei.

Procavia capensis schultzei, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 32.

Typical locality Chamis, Great Namaqualand.

Type in Berlin Museum.

Under-parts ochery; back ochery, grizzled with white; length of m^1 , 6·5 to 6·8 mm.; basicranial length, 75·4 mm.

F.—Procavia capensis waterbergensis.

Procavia capensis waterbergensis, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 33.

Typical locality Waterberg district.

Type in Berlin Museum.

Under-parts as in preceding race, but back yellowish brown with an ochery tinge, and flanks mainly silver-grey; length of m^1 , 6·8 to 7·2 mm.; basicranial length, 77·2 to 78·7 mm.

II. PROCAVIA NIGRICANS.

Hyrax nigricans, Peters, *Sitzber. Ges. nat. Freunde*, 1879, p. 10; Thomas, *Proc. Zool. Soc.* 1892, p. 60, footnote (as a possible local form of *P. capensis*).

Typical locality Chinchoxo, Lower Congo.

Type in Berlin Museum.

Founded on an immature specimen, insufficient for specific determination.

III. PROCAVIA JOHNSTONI.

Procavia johnstoni, Thomas, *Proc. Zool. Soc.* 1894, p. 142; Matschie, *Säugeth. Deutsch.-Ost-Afrika*, p. 94, 1895; Thomas and Wroughton, *Ann. Mag. Nat. Hist.* ser. 7, vol. xiv, p. 320, 1907.

Typical locality Nyasaland.

Type in collection.

IV. PROCAVIA SCIOANA.

Hyrax abyssinicus, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 47, 1868, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 42, pl. x, fig. 1, 1873, nec *H. habessinicus*, Hemprich and Ehrenberg.

Hyrax scioanus, Giglioli, *Ann. Mus. Genova*, vol. vi, p. 21, 1888.

Procavia shoana, Thomas, *Proc. Zool. Soc.* 1892, p. 61.

Typical locality Shoa; the range includes southern Abyssinia.

Type in the Genoa Museum.

V. PROCAVIA ERLANGERI.

Procavia erlangeri, Neumann, *Sitzber. Ges. nat. Freunde*, 1901, p. 238.

Typical locality Webi Shebeli Valley, Somaliland.

Type in the Berlin Museum.

VI. PROCAVIA ALPINI.

Hyrax alpini, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 45, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 287, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 43, 1873.

Procavia alpini, Neumann, *Sitzber. Ges. nat. Freunde*, 1901, p. 241.

Typical locality "Abyssinia."

Type in Collection.

Although identified by Thomas with *P. habessinica*, this hyrax is regarded by Neumann as a valid species, occurring in the Province of Gindeberat, Abyssinia.

VII. PROCAVIA KERSTINGI.

Procavia kerstingi, Matschie, *Sitzber. Ges. nat. Freunde*, 1899, p. 59; Thomas, *Ann. Mag. Nat. Hist.* ser. 7, vol. xv, p. 82, 1905.

Typical locality eastern Togoland, West Africa.

Type in Berlin Museum.

VIII. PROCAVIA GOSLINGI.

Procavia goslingi, Thomas, *Ann. Mag. Nat. Hist.* ser. 7, vol. xv, p. 82, 1905.

Typical locality Yerghum country, Northern Nigeria.

Type in collection.

A hypsodont, rather short-haired species with an elongated orange gland-patch, probably related to *P. kerstingi*, but with the backs of the ears yellowish grey, indistinctly edged with black on front border (instead of wholly black), and the hairs of the gland-patch orange throughout (instead of dark in the lower half). General colour dull yellowish sandy, sparsely speckled with black towards rump; under-parts dark buffish, not sharply defined from dark area above; head greyish brown, without yellow suffusion. Total length, 450 mm.; basicranial length, 72 mm.

IX. PROCAVIA SYRIACA (Fig. 21).

Hyrax syriacus, Schreber, *Säugthiere*, vol. iv, pl. ccxl, B, 1784, p. 923, 1792; Griffith, *Animal Kingdom*, vol. v, p. 293, 1827; Hemprich and Ehrenberg, *Symbol. Phys.* decas i, pl. ii, lower figure, 1828; Heuglin, *Fauna Rothen Meeres*, Peterm. *Mittheil.* 1861, pp. 16 and 19; Tristram, *Fauna Palestine*, p. 1, pl. i, 1884; Flower and Lydekker, *Study of Mammals*, p. 418, 1891; Camerano, *Boll. Mus. Torino*, vol. xxvi, no. 64, 1911.

Hyrax sinaiticus, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 45, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 288, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 42, 1873.

Procapia syriaca, Thomas, *Proc. Zool. Soc.* 1892, p. 62; Bonhote, *ibid.* 1909, p. 798.

Typical locality Syria; the range includes Palestine, the Sinaitic Peninsula, and Arabia.

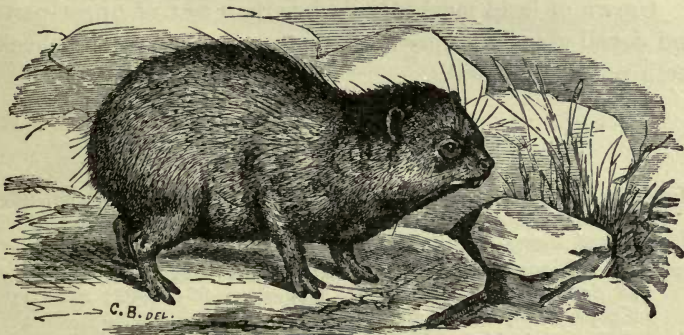


FIG. 21.—THE SYRIAN HYRAX (*Procapia syriaca*).

General colour apparently dark and heavily washed with fulvous; cheek-teeth relatively large.

A.—Procavia syriaca syriaca.

Procavia syriaca typica, Thomas, *Proc. Zool. Soc.* 1892, p. 63.

Typical locality Syria; the range includes Palestine and the Sinaitic Peninsula.

Type in collection.

B.—Procavia syriaca jayakari.

Procavia syriaca jayakari, Thomas, *Proc. Zool. Soc.* 1892, p. 63, 1900, p. 104; Matschie, *Sitzber. Ges. nat. Freunde*, 1889, p. 64.

Typical locality Dofar, Southern Arabia.

Type in collection.

X. PROCAVIA RUFICEPS.

Hyrax ruficeps, Hemprich and Ehrenberg, *Symbol. Phys.* decas i, pl. ii, upper figure, 1828.

Hyrax burtoni, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 43, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 285, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 39, 1873, *partim*.

Hyrax dongolanus, Blanford, *Proc. Zool. Soc.* 1869, p. 642; Bocage, *J. Sci. Lisboa*, ser. 2, vol. iii, p. 192, 1889.

Procavia ruficeps, Bonhote, *Proc. Zool. Soc.* 1909, p. 727; nec Thomas, *ibid.* 1902.

Typical locality Dongola, Eastern Sudan.

Type in Berlin Museum.

Crown of head markedly darker than rest of upper-parts, and dorsal gland forming a conspicuous yellow patch; cheek-teeth relatively small.

XI. PROCAVIA BURTONI.

Hyrax burtoni, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 43, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 285, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 39, 1873, *partim*.

Procavia ruficeps, Thomas, *Proc. Zool. Soc.* 1892, p. 63; Anderson and de Winton, *Zool. Egypt, Mamm.* p. 324, 1902; nec *Hyrax ruficeps*, Hemprich and Ehrenberg.

Procavia burtoni, Matschie, *Sitzber. Ges. nat. Freunde*, 1899, p. 64, *partim*; Bonhote, *Proc. Zool. Soc.* 1909, p. 707.

Typical locality Upper Egypt.

Type in collection.

Crown of head and hairs bordering dorsal gland similar in colour to rest of upper-parts, so that the gland does not form a conspicuous yellow spot; general colour apparently lighter and less washed with fulvous than in *P. syriaca*; cheek-teeth relatively large, the length of the upper series being 35 or 36 mm.

XII. PROCAVIA SHARICA.

Procavia sharica, *Thomas and Wroughton, Ann. Mag. Nat. Hist.* ser. 7, vol. xix, p. 322, 1907.

Typical locality Shari Valley, Lake Chad district.

Type in collection.

Size as in *P. goslingi*, but coat shorter and harsher, general colour duller (hair-brown), and skull with a sudden narrowing of fore part of nasals; gland linear and orange. Total length, 450 mm.; basicranial length, 73 mm.

XIII. PROCAVIA HABESSINICA.

Hyrax habessinicus, *Hemprich and Ehrenberg, Symbol. Phys.* decas i, pl. ii,* 1828; *Heuglin, Fauna Rothen Meeres, Peterm. Mittheil.* 1861, p. 16; *Flower and Lydekker, Study of Mammals*, p. 418, 1891.

Hyrax ferrugineus, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. iii, p. 242, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 283, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 42, 1873, *partim*.

Hyrax irroratus var. leucogaster, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. iv, p. 242, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 288, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 42, pl. xii, fig. 3, 1873.

Hyrax brucei, *Blanford, Proc. Zool. Soc.* 1869, p. 642, *Zool. Abyssinia*, p. 252, 1872; *Bocage, J. Sci. Lisboa*, ser. 2, vol. iii, p. 193, 1889; nec *Gray*.

Hyrax abyssinicus, *Blanford, Proc. Zool. Soc.* 1869, p. 642; *Bocage, J. Sci. Lisboa*, ser. 2, vol. iii, p. 122, 1889; nec *Gray*.

Procavia abyssinica, *Thomas, Proc. Zool. Soc.* 1892, p. 64; *Moreau, Bull. Soc. Zool. France*, vol. xxvii, p. 202, 1902.

Typical locality Abyssinia.

Type in Berlin Museum.

* The dark figure; *P. ruficeps* is the upper, and *P. syriaca*, the lower figure.

A.—Procavia habessinica habessinica.

Procavia abyssinica typica, *Thomas, Proc. Zool. Soc.* 1892, p. 66.

Locality Abyssinia, from Bogosland and Massowa southwards through the highlands to Adigrat.

Type in Berlin Museum.

General characters and colour those of the species ; size relatively large and fur long.

B.—Procavia habessinica minor.

Procavia abessinica minor, *Thomas, Proc. Zool. Soc.* 1892, p. 66.

Typical locality Alali, between Beilul and Assab, on western shore of Red Sea, about 15° N. lat.

Type in collection.

Smaller and shorter-haired than typical race ; diastema very short.

XIV. PROCAVIA FERRUGINEA.

Hyrax ferrugineus, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. iii, p. 242, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 283, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 42, 1873, *partim*.

Procavia ferruginea, *Neumann, Proc. Zool. Soc.* 1902, vol. ii, p. 143.

Typical locality Abyssinia.

Type in collection.

XV. PROCAVIA PALLIDA.

Procavia pallida, *Thomas, Proc. Zool. Soc.* 1892, p. 67, pl. iii.

Typical locality northern Somaliland.

Type in collection.

XVI. PROCAVIA RUWENZORII.

Procavia ruwenzorii, *Neumann, Proc. Zool. Soc.* 1902, vol. ii, p. 143.

Typical locality Mt. Ruwenzori, British East Africa.

Type in collection.

XVII. PROCAVIA MACKINDERI.

Procavia mackinderi, *Thomas, Proc. Zool. Soc.* 1900, p. 176.

Typical locality Mount Kenya, British East Africa.

Type in collection.

A.—*Procavia mackinderi mackinderi*.

Typical locality as above.

B.—*Procavia mackinderi zelotes*.

Procavia mackinderi zelotes, *Osgood, Field Mus. Zool. Pub.* vol. x, p. 5, 1910.

Typical locality between Naivasha and Kijaba, British East Africa.

Type in Field Museum, Chicago.

XVIII. PROCAVIA LOPESI.

Procavia lopesi, *Thomas and Wroughton, Ann. Mag. Nat. Hist.* ser. 7, vol. xix, p. 522, 1907.

Typical locality Gaima Range, Central Africa; the distribution also includes the Kibali Valley, Monbuttu.

Type in collection.

A hypsodont species, differing from the two preceding ones by the shorter fur and black crown of the head, the general colour being raw umber, due to the admixture of black with buff hairs; gland-patch bright orange; skull with the long, narrow nasals of *P. jacksoni*, but larger, with stouter cheek-teeth; in size the skull closely resembles that of *P. mackinderi*, but is distinguished by its smaller size, narrow nasals and rather bigger teeth. Total length, 560 mm.; basicranial length, 90 mm.

XIX. PROCAVIA OWENI.

Procavia oweni, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. viii, p. 123, 1911.

Typical locality Fouta Jalon, French Guinea.

Type in collection.

A large hypsodont species, with a large buffish orange gland-patch, allied to *P. lopesi* (and thus different from other west-coast hyraxes), but with the general colour tending more to buff, especially on the feet, which are greyish brown in the eastern species. Total length, 510 mm.

XX. PROCAVIA JACKSONI.

Procapia jacksoni, *Thomas, Proc. Zool. Soc.* 1900, p. 176, note.

Typical locality Ravine Station, British East Africa.

Type in collection.

XXI. PROCAVIA DÆMON.

Procapia dæmon, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 199, 1910.

Typical locality Mount Elgon, British East Africa.

Type in collection.

Differs from *P. jacksoni* by its softer fur, the darker and richer "raw umber" general colour, which has a distinct buffish tinge, owing to the deep buffish subterminal rings of the hairs, and the stouter cheek-teeth; skull wider and stouter, with the nasals broader at base. Length of head and body, 445 mm.; basicranial length, 84 mm.

XXII. PROCAVIA MATSCHIEI.

Procapia matschiei, *Neumann, Zool. Jahrb., Syst.* vol. xiii, p. 555, 1800, *Sitzber. Ges. nat. Freunde*, 1901, p. 242.

Typical locality Muansa, German East Africa.

Type in Berlin Museum.

XXIII. PROCAVIA WELWITSCHI.

Hyrax arboreus, *Peters, Proc. Zool. Soc.* p. 401, nec *A. Smith*.

Hyrax welwitschii, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 43, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 286, 1869; *Bocage, J. Sci. Lisboa*, ser. 2, vol. iii, p. 186, pl. i, fig. 1, 1889, vol. iv, p. 22, 1890.

Procapia welwitschii, *Thomas, Proc. Zool. Soc.* 1892, p. 68; *Neumann, Sitzber. Ges. nat. Freunde*, 1901, p. 240; *Brauer, ibid.* 1914, p. 35.

Typical locality coast of Angola.

Type in Lisbon Museum.

XXIV. PROCAVIA VOLKMANNI.

Procapia volkmanni, Brauer, *Sitzber. Ges. nat. Freunde*, 1914, p. 35.

Typical locality Franzfontein, German S.W. Africa.

Type in Berlin Museum.

Allied to *P. welwitschi*, but with p_1 more developed, the dentition hypsodont, and the general colour dusky cinnamon.

XXV. PROCAVIA LATASTEI.

Procapia latastei, Thomas, *Proc. Zool. Soc.* 1892, p. 69; Neumann, *Sitzber. Ges. nat. Freunde*, 1901, p. 240.

Typical locality Senegal.

Co-types in Genoa and British Museums.

XXVI. PROCAVIA BRUCEI.

Hyrax brucei, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 44, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 287, 1869, nec *Hand-List*, 1873; W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 209, 1901.

Dendrohyrax blainvillii, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 50, 1868. *Cat. Carnivora, etc. Brit. Mus.* p. 293, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 44, 1873.

Heterohyrax blainvillei, Gray, 1868, *loc. cit.* 1869, *op. cit.* p. 294.

Hyrax irroratus, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. iii, p. 242, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 288, 1869, nec var. *leucogaster*, *Hand-List*, 1873.

Hyrax mossambicus, Peters, *Sitzber. Ges. nat. Freunde*, 1869, p. 25, Noack, *Zool. Jahrb., Syst.* vol. iii, p. 199, 1888.

Dendrohyrax bakeri, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. xiv, p. 132, 1874.

Procapia brucei, Thomas, *Proc. Zool. Soc.* 1892, p. 70; W. L. Sclater, *Fauna S. Africa, Mamm.* vol. i, p. 315, 1900.

Typical locality Abyssinia, whence the range extends southwards through Somaliland, Uganda, Ugogo, etc., to Mozambique.

Type, as represented by *D. blainvillei*, of *Heterohyrax*.

A.—*Procapia brucei brucei*.

Procapia brucei typica, Thomas, *Proc. Zool. Soc.* 1892, p. 71.

Typical locality Abyssinia.

Type in collection.

B.—*Procavia brucei somalica*.

Procavia brucei somalica, *Thomas, Proc. Zool. Soc.* 1892, p. 71, *Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 201, 1910; *Drake-Brockman, Mamm. Somali*, p. 109, 1910.

Typical locality Berbera, Somaliland.

Type in collection.

Rather smaller than typical race, and colour paler. Basicranial length, 74 mm.

C.—*Procavia brucei hindei*.

Procavia brucei hindei, *Wroughton, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 107, 1910; *Lönnberg, ibid.* vol. ix, p. 66, 1912.

Typical locality, Kikuyu, B. E. Africa.

Type in collection.

Darker and redder than typical race, the general colour being "Mars-brown" ticked with whitish; black tips of dorsal hairs short; skull rather wider, with a lateral pair of backwardly directed processes on hind border of palate, which are wanting in true *brucei*, from which this race is readily distinguished by the blackish face. Total length, 450 mm.; length of upper series of cheek-teeth, 29 mm.; basicranial length, 73 mm.

D.—*Procavia brucei borana*.

Procavia brucei borana, *Lönnberg, Ann. Mag. Nat. Hist.* ser. 8, vol. ix, p. 66, 1912.

Typical locality north of Guaso Nyiro, B. E. Africa.

Type in Royal Swedish Museum.

Closely related to *P. b. hindei* but considerably smaller, general colour burnt-umber brown, grizzled with whitish, and dark brown tips to the hairs; face blackish brown; eyebrow-streak dull whitish; gland-patch cinnamon; flanks brownish grey; under-parts dull creamy white, with some buffish between fore-legs and in anal region.

E.—*Procavia brucei ruddi*.

Procavia brucei ruddi, Wroughton, *Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 108, 1910.

Typical locality Gorongosa Mountains, Portuguese East Africa.

Type in collection.

Differs from *P. b. hindei* by its slightly superior size, looser coat, and the coarsely mixed brown and whitish general colour, with a distinct blackish suffusion on middle of back, and the black tips about one-third total length of hairs; flanks paler than back, sharply defined from white underparts; skull rather wider and stouter, with palatal tubercles small or obsolete. Total length, 510 mm.; length of upper tooth row, 31 mm.

F.—*Procavia brucei maculata*.

Procavia brucei maculata, Osgood, *Field Mus. Zool. Pub.* vol. x, p. 6, 1910.

Typical locality Lukenya Mountain, B. E. Africa.

Type in Field Museum, Chicago.

G.—*Procavia brucei granti*.

Procavia brucei granti, Wroughton, *Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 109, 1910.

Typical locality Woodbush, Transvaal.

Type in collection.

Larger than any of the three preceding races, with long fur, which is harsher than in *P. b. ruddi*, and blackish brown grizzled with buffish on the back, becoming lighter on the flanks, and passing into dirty white on the underparts; face and crown like back, with a slight suffusion of black; gland-patch tawny ochery; skull short and wide, without the palatal protuberances of *P. b. hindei*. Total length, 504 mm.; length of upper series of cheek-teeth, 33 mm.; basicranial length, 76 mm.

H.—*Procavia brucei manningi*.

Procavia brucei manningi, *Wroughton, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 109, 1910.

Typical locality Mlanji, Nyasaland.

Type in collection.

Nearly related to *P. b. ruddi*, but darker and slightly larger, the entire length of the hairs becoming blackish in fully adult individuals, although in young animals the basal half and the tip are alone black, the remainder being buffish white below the tip, and then brown; forehead between eyes nearly black; gland-patch and eyebrow-streak tawny, the former paler. Total length, 580 mm.; length of upper series of cheek-teeth, 35 mm.; basiscranial length, 80 mm.

I.—*Procavia brucei thomasi*.

Procavia thomasi, *Neumann, Sitzber. Ges. nat. Freunde*, 1901, p. 240.

Procavia brucei thomasi, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 200, 1910.

Typical locality Kaffa, N.E. Africa.

Type in Berlin Museum.

J.—*Procavia brucei kempi*.

Procavia brucei kempi, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 200, 1910.

Typical locality Mount Elgon, B. E. Africa, at a height of 7000 feet.

Type in collection.

A mountain race distinguished from all the others by its dark general colour, which is between "mummy-brown" and bistre, with the light subterminal rings to the hairs narrow and dull buffish; under-parts dirty white; skull very like that of the preceding race, with the sphenoidal rostrum forming a rather narrow, although not sharp, ridge. Total length (immature), 395 mm.; basiscranial length, 71 mm.

K.—Procavia brucei princeps.

Procavia brucei princeps, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 199, 1910.

Typical locality Arusi-Gallaland.

Type in collection.

The largest member of the group, distinguishable by this feature combined with the sharp-edged ridge on the sphenoidal rostrum of the skull. Fur coarse, harsh, and of medium length (22 mm.); general colour mixed buffish and black, forming a coarse grizzle, with the light subterminal rings of the hairs creamy, and the under-parts distinctly whitish, without a buffish suffusion. Total length, 470 mm.; basicranial length, 90 mm.

XXVII. PROCAVIA PUMILA.

Procavia pumila, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 201, 1910.

Typical locality a point 50 miles south-east of Berbera, Somaliland.

Type in collection.

Essentially similar to *P. brucei somalica* (*supra*, p. 70), but so much smaller that, in the opinion of its describer, it is entitled to specific distinction. Total length, 375 mm.; basicranial length, 65 mm.

A.—Procavia pumila pumila.

Typical locality 50 miles south-east of Berbera.

Fur relatively long and colour light.

B.—Procavia pumila rudolfi.

Procavia pumila rudolfi, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 202, 1910.

Typical locality north end of Lake Rudolf.

Type in collection.

Fur shorter and colour darker than in typical race.

XXVIII. PROCAVIA SLATINI.

Procavia slatini, *Sassi, Sitzber. k. Ak. Wiss. Wien*, vol. cxv, p. 995, 1906.

Typical locality White Nile, south of Gondokoro.

Type in Vienna Museum.

XXIX. PROCAVIA MUENZERI.

Procavia (Heterohyrax) münzeri, *Brauer, Sitzber. Ges. nat. Freunde*, 1913, p. 137.

Typical locality Bismarckburg, Tanganyika.

Type in Berlin Museum.

XXX. PROCAVIA FROMMI.

Procavia (Heterohyrax) frommi, *Brauer, Sitzber. Ges. nat. Freunde*, 1913, p. 136.

Typical locality Maheng, German East Africa.

Type in Berlin Museum.

XXXI. PROCAVIA SCHUBOTZI.

Procavia (Heterohyrax) schubotzi, *Brauer, Sitzber. Ges. nat. Freunde*, 1913, p. 134.

Typical locality district northward of Lake Kivu.

Type in Berlin Museum.

XXXII. PROCAVIA BOUNHIOLI.

Procavia bounhioli, *Kollmann, Bull. Mus. Paris*, 1912, p. 281.

Typical locality Algerian Sahara.

Type in Paris Museum.

XXXIII. PROCAVIA BUTLERI.

Procavia butleri, *Wroughton, Ann. Mag. Nat. Hist.* ser. 8, vol. viii, p. 461, 1911; *Allen, Bull. Mus. Harvard*, vol. lviii, p. 326, 1914.

Typical locality Gebel Fazogli, Blue Nile Valley, at the foot of the Abyssinian highlands.

Type in collection.

XXXIV. PROCAVIA BAMENDÆ.

Procapia bamendæ, Brauer, *Sitzber. Ges. nat. Freunde*, 1913, p. 125.

Typical locality southern Cameruns.

Type in Berlin Museum.

XXXV. PROCAVIA KAMERUNENSIS.

Procapia kamerunensis, Brauer, *Sitzber. Ges. nat. Freunde*, 1913, p. 127.

Typical locality northern Cameruns.

Type in Berlin Museum.

2. SUBGENUS DENDROHYRAX.

Dendrohyrax, Gray, *Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 48, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 291, 1869; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 439, 1884.

XXXVI. PROCAVIA (DENDROHYRAX) SCHEELEI.

Dendrohyrax scheelei, Matschie, *Säugeth. Deutsch-Ost-Afrika*, p. 90, note, 1895.

Procapia scheelei, Neumann, *Sitzber. Ges. nat. Freunde*, 1901, p. 243.

Typical locality Khutu, Ruaha Valley, German East Africa.

Type in Berlin Museum.

XXXVII. PROCAVIA (DENDROHYRAX) VALIDA.

Dendrohyrax validus, True, *Proc. U.S. Nat. Mus.* vol. xii, p. 227, 1890, vol. xiv, p. 457, pl. lxxv, 1892; Matschie, *Säugeth. Deutsch-Ost-Afrika*, p. 92, 1895.

Procapia valida, Thomas, *Proc. Zool. Soc.* 1892, p. 74; Neumann, *Sitzber. Ges. nat. Freunde*, 1901, p. 240; Mähely, *Állat. Közlem.* vol. vi, p. 1, 1907.

Typical locality Mount Kilimanjaro.

Type in U.S. National Museum, Washington.

XXXVIII. *PROCAVIA (DENDROHYRAX) EMINI*.

Dendrohyrax emini, *Thomas, Ann. Mag. Nat. Hist.* ser. 5, vol. xx, p. 440, 1887, *Proc. Zool. Soc.* 1888, p. 15, pl. ii.

Procavia emini, *Thomas, Proc. Zool. Soc.* 1892, p. 73.

Typical locality Monbuttu, Upper Congo.

Type in collection.

A.—*Procavia emini emini*.

Typical locality Monbuttu.

Type in collection.

Hairs of back slaty blackish for basal four-fifths of length and broadly tipped with buffish.

B.—*Procavia emini latrator*.

Procavia emini latrator, *Thomas, Ann. Mag. Nat. Hist.* ser. 8, vol. v, p. 285, 1910.

Typical locality Batempa, Upper Sankuru Valley, south-central Congo.

Type in collection.

Hairs of back white or whitish in basal half, with a subterminal blackish ring; white eyebrow-streaks more conspicuous than in typical race; a light patch on occiput; dorsal gland large and ill-defined, with some hairs wholly cream-coloured and others cream at tip, blackish in middle of length and whitish at base. Total length, 540 mm.; basicranial length, 92 mm.

XXXIX. *PROCAVIA (DENDROHYRAX) ARBOREA*.

Hyrax arboreus, *A. Smith, Trans. Linn. Soc.* vol. xv, p. 468, 1827; *Peters, Reise Mossam. Säugeth.* p. 182, 1852; *Kirk, Proc. Zool. Soc.* 1864, p. 656.

Dendrohyrax arboreus, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 49, 1868, vol. xi, p. 154, 1873, *Cat. Carnivora, etc. Brit. Mus.* p. 293, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 44, pl. xiii, fig. 2, 1873; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 439, 1884; *Flower and Lydekker, Study of Mammals*, p. 418, 1891.

Hyrax bocagei, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. iii, p. 249, 1869, *Cat. Carnivora, etc. Brit. Mus.* p. 289, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 43, pl. xi, fig. 2, 1873; *Bocage, J. Sci. Lisboa*, ser. 2, vol. iii, p. 188, pl. i, fig. 2, 1889, vol. iv, p. 22, 1890.

Dendrohyrax grayi, *Bocage, J. Sci. Lisboa*, ser. 2, vol. iii, p. 190, 1890, vol. iv, p. 22, 1890.

Procavia grayi, *Thomas, Proc. Zool. Soc.* 1892, p. 72 (as a doubtful species).

Procavia arborea, *Thomas, Proc. Zool. Soc.* 1892, p. 74; *W. L. Sclater, Fauna S. Africa, Mamm.* vol. i, p. 314, 1900; *Neumann, Sitzber. Ges. nat. Freunde*, 1901, p. 243.

Type of *Dendrohyrax*.

Typical locality Cape Colony; the range includes Zambesia and Natal.

Type in collection.

XL. PROCAVIA (DENDROHYRAX) STUHLMANNI.

Dendrohyrax stuhlmanni, *Matschie, Sitzber. Ges. nat. Freunde*, 1892, p. 110, *Säugeth. Deutsch-Ost-Afrika*, p. 91, 1895.

Typical locality Bukoba, Victoria Nyanza.

Type in Berlin Museum.

XLI. PROCAVIA (DENDROHYRAX) NEUMANNI.

Dendrohyrax neumanni, *Matschie, Sitzber. Ges. nat. Freunde*, 1893, p. 112, *Säugeth. Deutsch-Ost-Afrika*, p. 91, 1895.

Typical locality Zanzibar.

Type in Berlin Museum.

XLII. PROCAVIA (DENDROHYRAX) DORSALIS.

Hyrax dorsalis, *Fraser, Proc. Zool. Soc.* 1852, p. 99, pl. xxxiii; *Jentink, Cat. Osteol. Mus. Pays-Bas*, pl. iv, 1887, *Notes Leyden Mus.* vol. x, p. 26, 1888.

Hyrax sylvestris, *Temminck, Esquiss. Zool. Guinée*, p. 182, 1853.

Dendrohyrax dorsalis, *Gray, Ann. Mag. Nat. Hist.* ser. 4, vol. i, p. 49, 1868, *Cat. Carnivora, etc. Brit. Mus.* p. 292, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 43, pl. xii, fig. 1 and pl. xiii, fig. 1, 1873; *Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 440, 1884; *Flower and Lydekker, Study of Mammals*, p. 418, 1891; *Matschie, Säugeth. Deutsch-Ost-Afrika*, p. 90, 1895; *Pousargues, Ann. Sci. Nat., Zool.* ser. 8, vol. iv, p. 92, 1896.

Hyrax stampflii, *Jentink, Notes Leyden Mus.* vol. viii, p. 209, 1886, vol. x, p. 26, pl. iv, 1888, *Cat. Osteol. Mus. Pays-Bas*, pl. iv, 1887.

Procavia dorsalis, *Thomas, Proc. Zool. Soc.* 1892, p. 75.

Typical locality Fernando Po; the range extending on the west coast at least from Liberia to the Cameruns and Fernando Po.

XLIH. PROCAVIA (DENDROHYRAX) MARMOTA.

Procavia (Dendrohyrax) marmota, *Thomas, Proc. Zool. Soc.* 1901, p. 88.

Typical locality Entebbe, Uganda.

Type in collection.

XLIV. PROCAVIA (DENDROHYRAX) BETTONI.

Procavia bettoni, *Thomas and Schwann, Proc. Zool. Soc.* 1904, vol. i, p. 464.

Dendrohyrax bettoni, *Allen, Bull. Amer. Mus. Nat. Hist.* vol. xxxiii, p. 340, 1914.

Typical locality Kikuyu, B. E. Africa.

Type in collection.

XLV. PROCAVIA (DENDROHYRAX)
ASCHANTIENSIS.

Procavia (Dendrohyrax) aschantiensis, *Brauer, Sitzber. Ges. nat. Freunde*, 1914, p. 36.

Typical locality Ashanti.

Type in Berlin Museum.

XLVI. PROCAVIA (DENDROHYRAX) TERRICOLA.

Dendrohyrax terricola, *Mollison, Anat. Anz.* vol. xxix, p. 423, 1908, *Morphol. Jahrb.* vol. xxxiv, p. 240, 1905.

Typical locality Usambara.

XLVII. PROCAVIA (DENDROHYRAX) ADAMETZI.

Procavia (Dendrohyrax) adametzi, *Brauer, Sitzber. Ges. nat. Freunde*, 1912, p. 412.

Typical locality Cameruns.

Type in Berlin Museum.

A.—*Procavia adametzi adametzi*.

Typical locality Cameruns.

Type in Berlin Museum.

B.—Procavia adametzi zenkeri.

Procavia (*Dendrohyrax*) *adametzi zenkeri*, *Brauer, Sitzber. Ges. nat. Freunde*, 1914, p. 38.

Typical locality Bipindi, Cameruns.

Type in Berlin Museum.

XLVIII. PROCAVIA (DENDROHYRAX) TESSMANNI.

Procavia (*Dendrohyrax*) *tessmanni*, *Brauer, Sitzber. Ges. nat. Freunde*, 1912, p. 411.

Typical locality Spanish Guinea.

Type in Berlin Museum.

XLIX. PROCAVIA (DENDROHYRAX) CRAWSHAYI.

Procavia *crawshayi*, *Thomas, Proc. Zool. Soc.* 1900, p. 178, 1901, p. 88.

Dendrohyrax *crawshayi*, *Dollman, Ann. Mag. Nat. Hist.* ser. 8, vol. xviii, p. 131, 1911.

Typical locality Uganda.

Type in collection.

A.—Procavia crawshayi crawshayi.

Typical locality Uganda.

Type in collection.

B.—Procavia crawshayi laikipia.

Dendrohyrax *crawshayi laikipia*, *Dollman, Ann. Mag. Nat. Hist.* ser. 8, vol. viii, p. 131, 1911.

Typical locality Laikipia, B. E. Africa.

Type in collection.

L. PROCAVIA (DENDROHYRAX) ADOLFI-FRIEDERICI.

Procavia (*Dendrohyrax*) *adolphi-friederici*, *Brauer, Sitzber. Ges. nat. Freunde*, 1913, p. 132.

Typical locality district north of Lake Kivu.

Type in Berlin Museum.

LI. PROCAVIA (DENDROHYRAX) SCHEFFLERI.

Procavia (Dendrohyrax) scheffleri, *Brauer, Sitzber. Ges. nat. Freunde*, 1913, p. 130.

Typical locality Kilwezi, B. E. Africa.

Type in Berlin Museum.

SUBORDER IV.—PROBOSCIDEA.

FAMILY ELEPHANTIDÆ.

Genus ELEPHAS.

Elephas, *Linn., Syst. Nat.* ed. 10, vol. i, p. 35, 1758, ed. 12, vol. i, p. 48, 1766; *Falconer, Quart. Journ. Geol. Soc.* vol. xiii, p. 318, 1857; *Gray, Cat. Carnivora, etc. Brit. Mus.* p. 358, 1869; *Lydekker, Cat. Foss. Mamm. Brit. Mus.* pt. iv, p. 78, 1886.

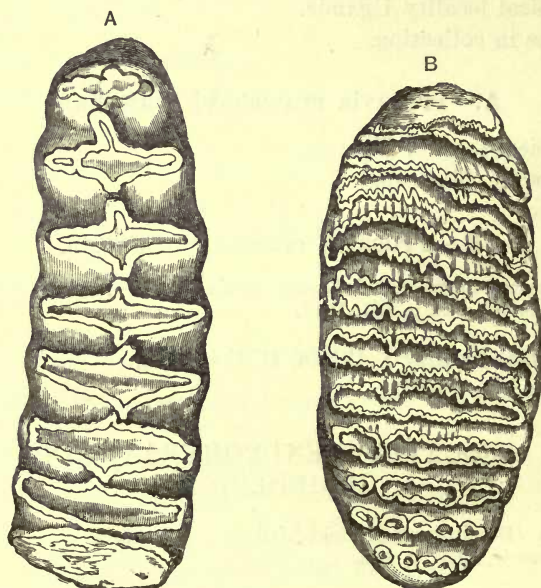


FIG. 22.—AN UPPER MOLAR (A) OF THE AFRICAN ELEPHANT (*E. africanus*), AND (B) OF THE ASIATIC ELEPHANT (*Elephas maximus*).

1. SUBGENUS **ELEPHAS**.

Euelephas, *Falconer*, *Quart. Journ. Geol. Soc.* vol. xiii, p. 318, 1857.

I. **ELEPHAS MAXIMUS** (Figs. 22 B, 23-25).

Elephas maximus, *Linn.*, *Syst. Nat.* ed. 10, vol. i, p. 35, 1758, ed. 12, vol. 1, p. 48, 1766, *partim*; *Blanford*, *Fauna Brit. India*, *Mamm.* p. 463, 1891; *Lydekker*, *Great and Small Game of India*, p. 1, 1900, *Game Animals of India*, p. 6, 1907; *Elliot*, *Cat. Mamm. Field Mus.* (*Field Mus. Zool. Pub.* vol. viii) p. 106, 1907; *Andrews*, *Guide to Elephants Brit. Mus.* p. 39, 1908; *Ward*, *Records of Big Game*, ed. 6, p. 476, 1910, ed. 7, p. 475, 1914.

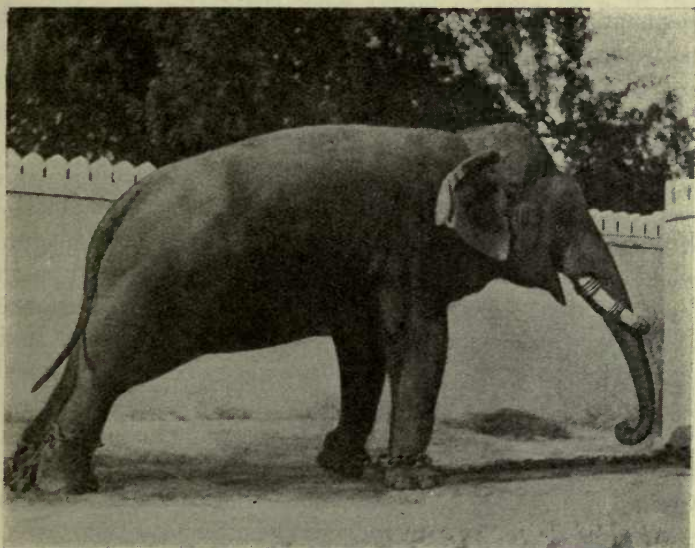


FIG. 23.—LARGE MALE INDIAN ELEPHANT (*Elephas maximus*),
belonging to H.H. the Maharaja of Alwar.

From S. S. Flower, "Report on a Zoological Mission to India in 1913,"
Ministry of Public Works, Cairo, 1914.

Elephas indicus, *Cuvier*, *Tabl. Élem. Hist. Nat.* p. 148, 1798, *Règne Animal*, vol. i, p. 231, 1817; *Corse*, *Asiatic Researches*, vol. iii, p. 29, 1799; *Griffith*, *Animal Kingdom*, vol. iii, p. 326, vol. v, p. 286, 1827; *Jardine*, *Naturalist's Libr.*, *Mamm.* vol. v, p. 106, pl. ii, 1837; *Elliot*, *Madras Journ.* vol. x, p. 219, 1839; *Gray*, *List Mamm. Brit. Mus.* p. 184, 1843, *Cat. Carnivora, etc. Brit. Mus.* p. 358, 1869, *Hand-List Thick-skinned Mamm. Brit. Mus.* p. 72, 1873; *Kelaart*, *Prodromus Faunæ Zeylan.* p. 77, 1852;

Gerrard, *Cat. Bones Mamm. Brit. Mus.* p. 274, 1862; Blyth, *Cat. Mamm. Mus. Asiat. Soc. Bengal*, p. 134, 1863; Falconer, *Nat. Hist. Rev.* vol. iii, p. 81, 1863; Jerdon, *Mamm. India*, p. 229, 1867; Johnston, *Proc. Asiat. Soc. Bengal*, 1868, p. 127; Sterndale, *Mamm. India*, p. 389, 1884; Flower and Garson, *Cat. Osteol. Mus. R. Coll. Surg.* pt. ii, p. 442, 1884; Lydekker, *Cat. Foss. Mamm. Brit. Mus.* pt. iv, p. 98, 1886; W. L. Sclater, *Cat. Mamm. Ind. Mus.* pt. ii, p. 206, 1891; Flower and Lydekker, *Study of Mammals*, p. 424, 1891; Hose, *Mamm. Borneo*, p. 62, 1893; Beddard, *Cambridge Nat. Hist., Mamm.* p. 221, 1902; Lull, *Smithson. Rep.* 1908, pp. 664 and 673, 1909.

Elephas asiaticus, Blumenbach, *Handbuch Naturgeschichte*, vol. ii, p. 403, 1803.

INDIAN ELEPHANT: HATHI.

The name *Elephas maximus* is typified by a Ceylon elephant, and at first sight it would seem that Ceylon should be taken as the typical locality of the species. But there are two races of elephants in that island; one—probably indigenous—in which the tusks of the males are insignificant, and the other—almost certainly introduced—in which they are large. Now it seems almost certain that the big-tusked race formed the type of Linne's species; and if so, Ceylon will not be the typical locality. Unfortunately, it is uncertain whether the tusker-race was imported from the Indian mainland * or from Lower Burma.† Under these circumstances the writer has considered it advisable to take southern India (say Mysore) as the type locality, and to regard the small tusked Ceylon form as a second race.

The range includes India (to a considerable elevation in the Himalaya), Assam, Cachar, Ceylon, Burma, Siam, Cochin China, the Malay Peninsula, northern Borneo (where the species may have been introduced), and Sumatra.

A.—*Elephas maximus maximus*.

Elephas indicus bengalensis, Blainville, *Ostéographie, Genus Elephas*, pl. vii.

Typical locality arbitrarily taken as Mysore (*supra*).

* See Lydekker, *Game Animals of India*, p. 15.

† See Still, *Spolia Zeylanica*, vol. iv, p. 178, 1907.

B.—*Elephas maximus zeylanicus*.

Elephas indicus zeylanicus, Blainville, *Ostéographie*, Genus *Elephas*, pl. i.

Elephas maximus zeylanicus, Lydekker, *Game Animals of India*, etc. p. 15, 1907.

Typical locality Ceylon.

C.—*Elephas maximus sumatranus* (Fig. 24).

Elephas sumatranus, Temminck, *Coup d'œil Poss. Neerland.* vol. ii, p. 91, 1847, *Proc. Zool. Soc.* 1849, p. 144; Schlegel, *Versl. Med. Ac. Vet. Afdeel. Natuur.* 1861, p. 101, *Nat. Hist. Rev.* vol. ii, p. 72, 1862; Jentink, *Aadr. Weekblad*, 1881, pp. 281 and 293; Cabrera, *Cat. Met. Mamm. Mus. Madrid*, p. 135, 1912.

Elephas maximus sumatranus, Lydekker, *Great and Small Game of India*, etc. p. 111, 1900, *Game Animals of India*, etc. p. 16, 1907.



FIG. 24.—MALE ELEPHANT (*Elephas maximus sumatranus*), Deli, Sumatra, formerly living in the Rotterdam Zoological Gardens.

From a photograph sent by Dr. J. Büttikofer.

Typical locality Sumatra.

The illustration (fig. 24) of a Sumatran elephant in the Rotterdam Zoological Gardens is taken from a photograph sent by Dr. J. Büttikofer. Mr. Graham Renshaw,* who has figured a specimen in the Amsterdam Gardens, calls attention to its small size, to its tessellated skin, to the pyriform shape of the ear, and to the infolding of its posterior edge.

D.—*Elephas maximus hirsutus* (Fig. 25).

Elephas maximus hirsutus, Lydekker, *Proc. Zool. Soc.* 1914, p. 285.

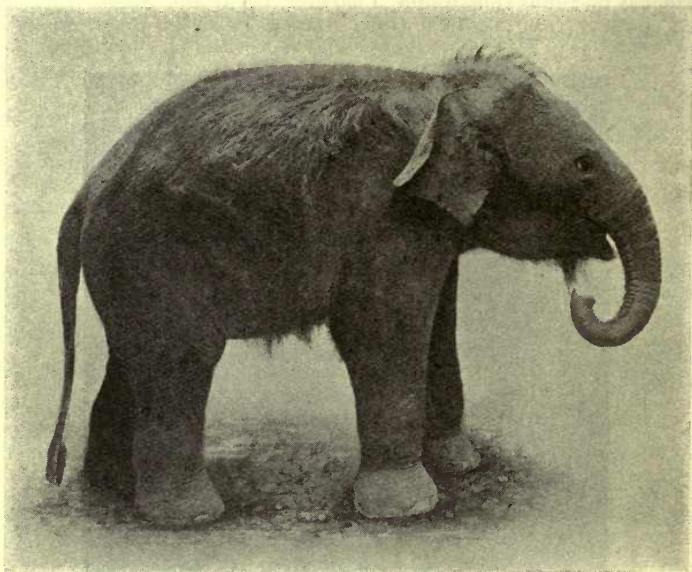


FIG. 25—YOUNG FEMALE MALAY ELEPHANT (*Elephas maximus hirsutus*), about three years old, Negri Sembilan, Malay Peninsula, formerly in the Gardens of the Zoological Society, Regent's Park, London.

Presented by the Rowland Ward Trustees. Type of the subspecies (14. 2. 16. 1).

Typical locality Malay Peninsula.

Type in collection.

* *The Field*, vol. 123, 1914, p. 745.

2. SUBGENUS **LOXODONTA**.

Loxodonte, *F. Cuvier, Hist. Nat. Mamm. livr. 31, pl. 1825.*

Loxodonta, *F. Cuvier, Zool. Journ. vol. iii, p. 140, 1827; Gray, List Mamm. Brit. Mus. p. 184, 1843, Cat. Carnivora, etc. Brit. Mus. p. 359, 1869.*

Loxodon, *Falconer, Quart. Journ. Geol. Soc. vol. xiii, p. 318, 1857; Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg. pt. ii, p. 483, 1884; nec Müller and Henle, 1841.*

Loxo(-disco-)don, *Pohlig, Nova Acta Ac. Cæs, Leop.-Car. vol. liii, pp. 138 and 352, 1888.*

II. **ELEPHAS (LOXODONTA) AFRICANUS**
(Figs. 22 A, 27–31).

Elephas africanus, *Blumenbach, Handbuch Naturgeschichte, 1779, Abbild. nat. Gegenstände, pl. xix, fig. c, 1810; Cuvier, Règne Animal, vol. i, p. 231, 1817; Griffith, Animal Kingdom,*

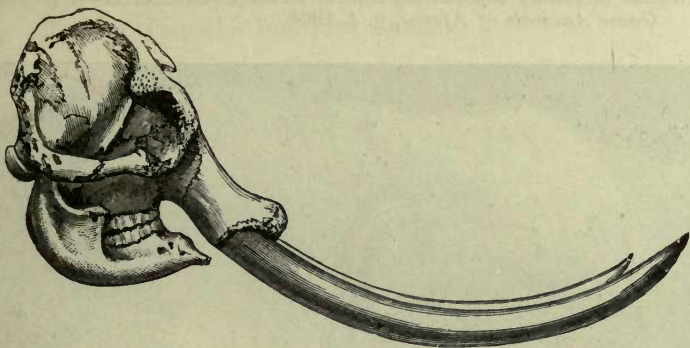


FIG. 26.—SKULL OF AFRICAN ELEPHANT (*Elephas africanus*).

vol. iii, p. 327, vol. v, p. 286, 1827; Jardine, Naturalist's Libr., Mamm. vol. v, p. 124, pl. iv, 1837; Giebel, Säugethiere, p. 159, 1859; Kirk, Proc. Zool. Soc. 1864, p. 654; Flower and Garson, Cat. Osteol. Mus. R. Coll. Surg. pt. ii, p. 484, 1884; W. L. Sclater, Cat. Mamm. Ind. Mus. pt. ii, p. 208, 1891, Fauna S. Africa, Mamm. vol. i, p. 319, 1900; Flower and Lydekker, Study of Mammals, p. 425, 1891; Matschie, Säugeth. Deutsch-Ost.-Afrika, p. 88, 1895; Pousargues, Ann. Sci. Nat. Zool. ser. 8, vol. iv, p. 138, 1896; Great and Small Game of Africa, p. 1, 1899; Beddard, Cambridge Nat. Hist., Mamm. p. 221, 1902; Lydekker, Game Animals of Africa, p. i, 1908; Andrews, Guide to Elephants Brit. Mus. p. 42, 1908; Lull, Rep. Smithsonian. Inst. 1908, p. 671, 1909.

Loxodonta africana, *Gray, List Mamm. Brit. Mus. p. 184, 1843, Cat. Carnivora, etc. Brit. Mus. p. 359, 1869, Hand-List Thick-skinned*

Mamm. Brit. Mus. p. 74, 1873; *Gerrard, Cat. Bones Mamm. Brit. Mus.* p. 275, 1862.

Elephas (*Loxodonta*) *africanus*, *Blanford, Zool. Abyssinia*, p. 258, 1870.

Elephas (*Loxodon*) *africanus*, *Ward, Records of Big Game*, ed. 6, p. 481, 1910, ed. 7, p. 479, 1914.

Loxodon africanus, *Osborn, Bull. Geol. Soc. America*, vol. xxv, p. 409, 1914.

Typical locality unknown.

A.—*Elephas africanus capensis* (Fig. 27).

Elephas capensis, *Cuvier, Tabl. Hist. Nat. Anim.* p. 142, 1798.

Elephas africanus capensis, *Matschie, Sitzber. Ges. nat. Freunde*, 1900, p. 193; *Rothschild, Powell-Cotton's Abyssinia*, p. 483, 1902; *Lydekker, Proc. Zool. Soc.* 1907, p. 384, *Game Animals of Africa*, p. 4, 1908.

(?) *Elephas africanus typicus*, *Lydekker, Proc. Zool. Soc.* 1907, p. 384.

Elephas africanus toxotis, *Lydekker, Proc. Zool. Soc.* 1907, p. 388, *Game Animals of Africa*, p. 4, 1908.

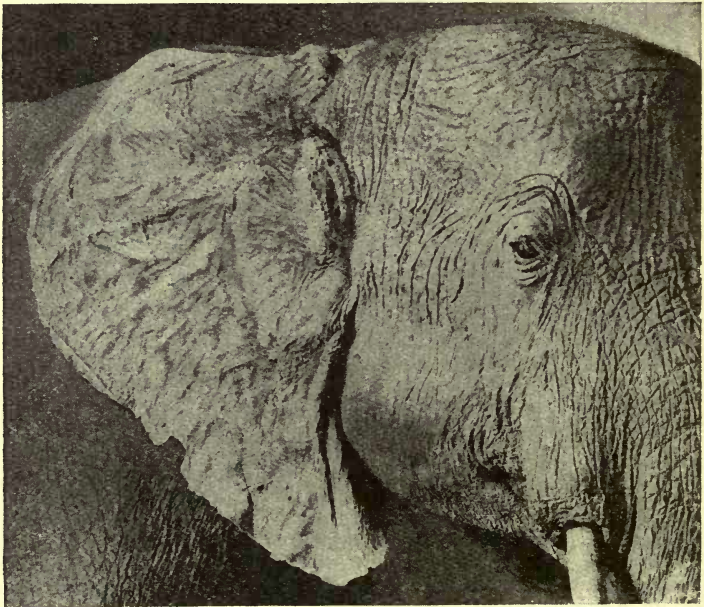


FIG. 27.—HEAD OF A FEMALE CAPE ELEPHANT (*Elephas africanus capensis*), in the South African Museum, Cape Town.

From *Lydekker, Proc. Zool. Soc.* 1907, p. 385.

Typical locality eastern Cape Colony, in the neighbourhood of the Orange River.

E. a. toxotis was named on the evidence of a mounted female specimen (fig. 27) in the South African Museum, Cape Town, which the writer, when he named the presumed race, was informed by the then director came from the western side of Cape Colony. He has, however, been subsequently informed by Mr. W. L. Sclater that it was really shot in the Addo Bush, and that the skin was mounted during his own tenancy of the directorship of the South African Museum.

B.—*Elephas africanus selousi*.

Elephas africanus selousi, *Lydekker, Proc. Zool. Soc.* 1907, pp. 387 and 783, *Game Animals of Africa*, p. 4, 1908.

Typical locality Mashonaland, Rhodesia.

Type in Imperial Institute, London.

C.—*Elephas africanus cyclotis*.

Elephas africanus cyclotis, *Matschie, Sitzber. Ges. nat. Freunde*, 1900, p. 194; *Rothschild, Powell-Cotton's Abyssinia*, p. 483, 1902; *Lydekker, Proc. Zool. Soc.* 1907, pp. 390 and 783, *Game Animals of Africa*, p. 4, 1908.

(?) *Elephas africanus pumilio*, *Noack, Zool. Anz.* xxix, p. 631, 1906; *Lydekker, Proc. Zool. Soc.* 1907, p. 400, *Game Animals of Africa*, p. 8, 1908.

Loxodon cyclotis, *Osborn, Bull. Geol. Soc. America*, vol. xxv, p. 409, 1914.

Typical locality southern Cameruns, West Africa.

Type a young animal formerly living in the Berlin Zoological Gardens; figured by Heck.

D.—*Elephas africanus cottoni*.

Elephas africanus cyclotis, *Lydekker, Proc. Zool. Soc.* 1907, p. 390, fig. 111, nec *Matschie*.

Elephas africanus cottoni, *Lydekker, Proc. Zool. Soc.* 1907 p. 783, *Game Animals of Africa*, p. 5, 1908.

Typical locality Belgian Congo.

Type in collection of Major P. H. G. Powell-Cotton, at Quex Park, Birchington, Kent.

E.—*Elephas africanus knochenhaueri* (Fig. 28).

Elephas africanus knochenhaueri, Matschie, *Sitzber. Ges. nat. Freunde*, 1900, p. 197; Rothschild, *Powell-Cotton's Abyssinia*, p. 483, 1902; Lydekker, *Proc. Zool. Soc.* 1907, pp. 384 and 391, *Game Animals of Africa*, p. 5, 1908.

Elephas africanus knochenhaueri, Trouessart, *Cat. Mamm.*, Suppl. p. 602, 1905, errorim.

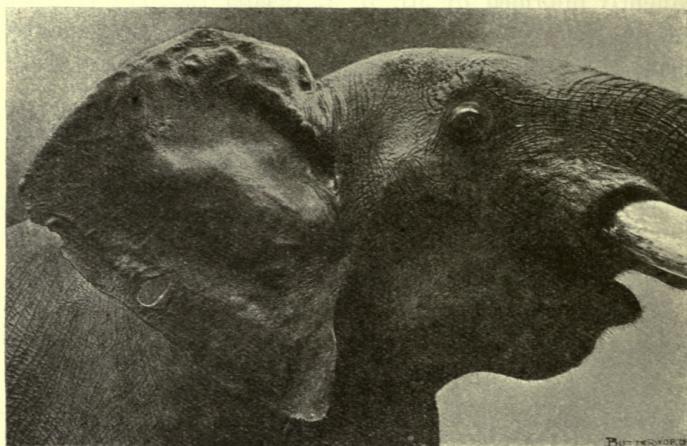


FIG. 28.—HEAD OF MALE ELEPHANT (*Elephas africanus knochenhaueri* ?), from near Fort Manning, S. Nyasaland, mounted in the Central Hall of the British Museum (6. 8. 20. 1).

From Lydekker, *Proc. Zool. Soc.* 1907, p. 392.

Typical locality German East Africa.

Type in Berlin Museum.

F.—*Elephas africanus peeli*.

Elephas africanus peeli, Lydekker, *Proc. Zool. Soc.* 1907, p. 394, *Game Animals of Africa*, p. 5, 1908; Roosevelt, *African Game Trails*, p. 487, 1910.

Typical locality Aberdare Mountains, B. E. Africa.

Type in collection of Mr. C. V. A. Peel, Woodstock Road, Oxford.

G.—*Elephas africanus cavendishi*.

Elephas africanus cavendishi, *Lydekker, Proc. Zool. Soc.* 1907, p. 395,
Game Animals of Africa, p. 7, 1908.

Typical locality Lake Rudolf district, northern East Africa.

Type in collection.

H.—*Elephas africanus oxyotis* (Figs. 29, 30).

Elephas africanus oxyotis, *Matschie, Sitzber. Ges. nat. Freunde*, 1900,
p. 196; *Rothschild, Powell-Cotton's Abyssinia*, p. 482, 1902;

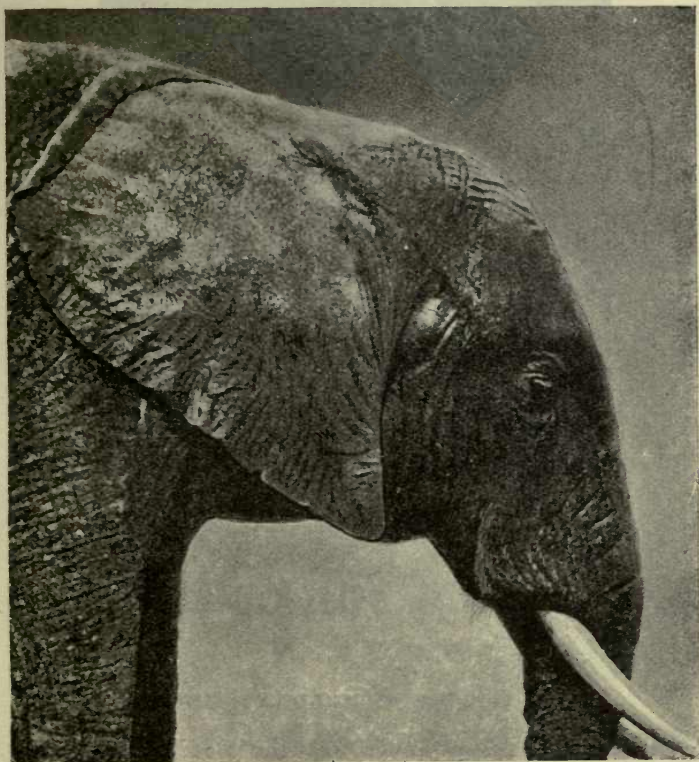


FIG. 29.—HEAD OF AN ABYSSINIAN ELEPHANT (*Elephas africanus oxyotis*), formerly living in the Gardens of the Zoological Society, Regent's Park, London.

From Lydekker, *Proc. Zool. Soc.* 1907, p. 396.

Lydekker, *Proc. Zool. Soc.* 1907, p. 359, *Game Animals of Africa*, p. 8, 1908; Allen, *Bull. Mus. Harvard*, vol. lviii, p. 325, 1914.

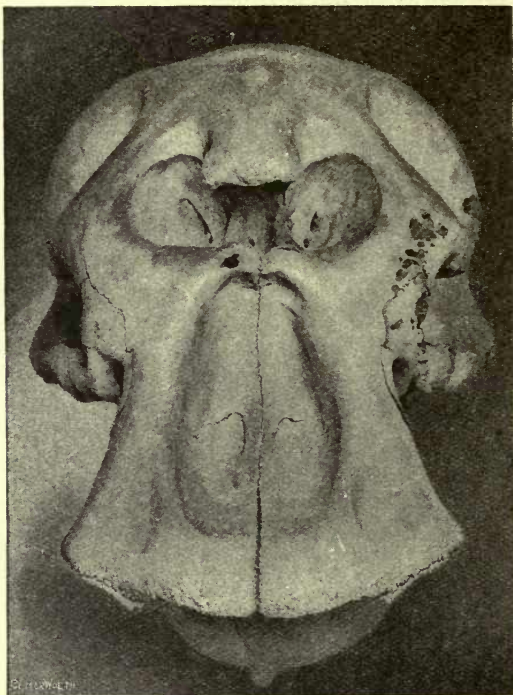


FIG. 30.—SKULL OF ABYSSINIAN ELEPHANT (*Elephas africanus oxyotis*), White Nile.

Presented by Sir Samuel Baker, 1870 (708, p.).

From Lydekker, *Proc. Zool. Soc.* 1907, p. 401.

Typical locality Upper Atbara Valley, Abyssinia.
Type in Berlin Museum.

I.—*Elephas africanus orleansi*.

Elephas africanus orleansi, Lydekker, *Proc. Zool. Soc.* 1907, p. 398, *Game Animals of Africa*, p. 8, 1908; Drake-Brockman, *Mamm. Somali*, p. 111, 1910.

Typical locality Somaliland.
Type in collection of H.R.H. the Duke of Orleans.

J.—*Elephas africanus rothschildi*.

Elephas africanus rothschildi, *Lydekker, Proc. Zool. Soc.* 1907, p. 399, *Game Animals of Africa*, p. 8, 1908.

Typical locality Lake Chad district, French Sudan.

K.—*Elephas africanus albertensis* (Fig. 31).

Elephas africanus albertensis, *Lydekker, Proc. Zool. Soc.* 1907, p. 403, *Game Animals of Africa*, p. 8, 1908.

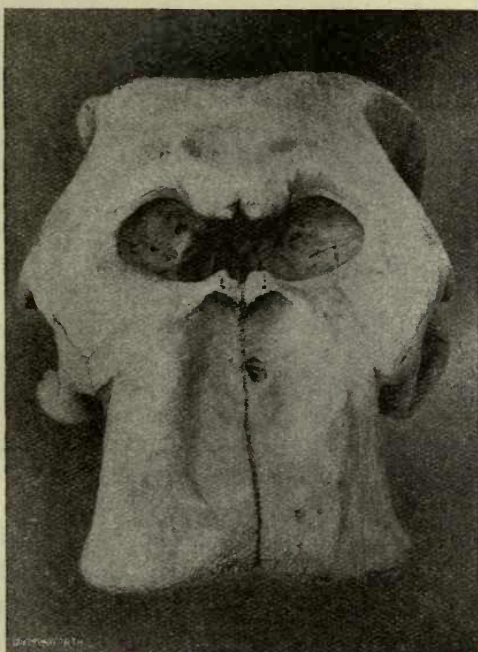


FIG. 31.—SKULL OF SEMLIKI ELEPHANT (*Elephas africanus albertensis*), from the South end of the Albert Nyanza.

Presented by Stanley C. Tomkins, Esq., 1906 (6. 6. 16. 1).

From Lydekker, *Proc. Zool. Soc.* 1907, p. 402.

Typical locality the southern end of the Albert Nyanza, whence individuals of this race wander from time to time into the Semliki Valley.

Type in collection.

ADDENDA.

VOL. I.

SUBORDER ARTIODACTYLA (p. 3).

FAMILY BOVIDÆ (p. 9).

Genus BOS (p. 11).

X. BOS (BUBALUS) CAFFER (p. 50).

D¹.—**Bos caffer athiensis.**

Bubalus caffer athiensis, Matschie, *Deutsche Jäger-Zeitung*, vol. lix, p. 210, 1912.

Typical locality Galla-Galla Mountains, the range also including the Athi Plains, British East Africa.

Type in Germany.

Allied to *B. c. schillingsi* (vol. i, p. 54), but the tips of the horns rising only to a slight extent above the line of the highest part of the base; the tips themselves being strongly bent backwards and only a little inwards; the basal portion of the palms of the horns are very flat, and towards the middle of their length the horns are strongly bent backwards.

No. 11. 12. 13. 1, vol. i, p. 56, which came from the Athi Plains, represents this race, to which No. 87. 7. 8. 6 (*loc. cit.*) may also belong.

The following names have also been applied by Matschie to buffaloes from British and German East Africa, but their

claims to recognition as local races seem very doubtful, and some of them at any rate are probably based on individual heads.

a.—*Bubalus caffer tanaë*, Matschie, *Deutsche Jäger-Zeitung*, vol. lix, p. 210, 1912.

Typical locality Tana Valley, southward of Mount Kenia, B. E. Africa.

The horns, instead of being so strongly bent downwards that the axes of the basal and terminal halves form a right angle with one another, as in *B. c. athiensis*, only curve to such an extent that an obtuse angle is formed at that point.

No. 10. 12. 10. 1, vol. i, p. 56, should be referred to this type, if it be really distinct from *B. c. athiensis*.

b.—*Bubalus caffer bubuensis*, Matschie, *Deutsche Jäger-Zeitung*, vol. lix, pp. 102 and 103, fig. 79, 1912, *Beröff. Inst. Jagdkunde*, vol. ii, p. 170, 1913.

Typical locality Bubu Valley, Eastern Turu, German East Africa.

Stated to resemble *B. c. ruahensis* (vol. i, p. 53), but the horns diminish gradually and evenly (instead of suddenly) from base to tip, and the tips are only slightly turned inwards, thereby producing a much wider span.

c.—*Bubalus massaicus*, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, pp. 169 and 170, fig. 83, 1913.

Typical locality Masailand, German East Africa.

Stated to differ from the preceding form by the somewhat inward inclination of the horn-tips, and by certain other details in the general form of the horns.

d.—*Bubalus wintgensii*, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, pp. 169 and 170, fig. 83, 1913.

Typical locality Uka, German East Africa.

Stated to differ from *massaicus* by the smaller skull, and by the breadth of the horns, at a point from the base equidistant with the interval between the tip of the muzzle and the horn-base, being much more than half as wide as the maximum basal breadth, instead of only half as wide.

e.—*Bubalus urundicus*, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, pp. 169 and 170, fig. 83, 1913.

Typical locality south-east Urundi, German East Africa.

Stated to differ from the preceding form (*wintgensii*) by the relatively shorter skull, and by the horns being wider at the base and more downwardly inclined, with the sharp tips directed more suddenly inwards, and more bent backwards; they also diminish abruptly in calibre at about the middle of their length, and at their origin from the forehead are directed more backwards and less outwards.

K.—*Bos caffer æquinoctialis* (p. 58).

Allen, *Bull. Mus. Zool. Harvard*, vol. lviii, p. 308, considers that Matschie's *B. c. azrakensis* (vol. i, p. 57) is inseparable from this race; the long, backwardly-directed horn-tips of the type of the former being apparently an individual peculiarity of an immature animal.

P.—*Bos caffer brachyceros* (p. 62).

No. 10. 5. 16. 1, vol. i, p. 61, apparently belongs to this race.

P¹.—*Bos caffer houyi*.

Bubalus caffer houyi, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 494, 1914.

Typical locality Pelle, near Gore, Logone Valley, Camerun frontier.

Type in Senckenberg Museum, Frankfurt-am-Main.

Nearly allied to *B. c. brachyceros*, but smaller, with less expanded horns, of which the tips are less nearly vertical; general colour ranging from reddish brown to black, with throat and under-parts varying from brownish red to reddish brown; facial region of skull narrower than in *brachyceros*, and frontals scarcely convex at base of horns.

No specimen in collection.

Q¹.—*Bos caffer adamauæ*.

Bubalus caffer adamauæ, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 44, 1914.

Typical locality Garua, Benue Valley, Adamaua.

Type in Senckenberg Museum, Frankfurt-am-Main.

Allied to *B. c. planiceros* and *B. c. beddingtoni*, but skull rather smaller than in the former, with moderately prominent orbits, slender muzzle, and low and wide occiput; palms of horns more inclined backwards than in either of the above races, without a downward direction, and relatively narrow; tips long, stout, more inclined inwards than in the other races, with the extremities directed backwards (not upwards).

4. 7. 9. 13 (p. 63) is referred by its founder to this race.

R.—*Bos caffer hunti* (p. 67).

Bubalus hunti*, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, p. 169, 1913.

14. 10. 16. 1. Skull, with horns, and scalp-skin. Near Onitsha, central Nigeria.

Presented by Lieut. A. W. Hunt, R.N., 1914.

14. 10. 16. 2. Skull, with horns. Same locality.

Same history.

T¹.—*Bos caffer diehli*.

Bubalus caffer diehli, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xi, p. 268, 1913.

Bubalus diehli, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, p. 169, 1913.

Typical locality Manfe, Cross River, western Cameruns.

Type in Senckenberg Museum, Frankfurt-am-Main.

Intermediate in size and characters of skull and horns between *B. c. beddingtoni* and *B. c. nanus*. Skull shorter and wider than in the former, with relatively longer and narrower nasals and more prominent orbits; horns rather massive, but without basal boss, directed slightly backwards and downwards, with the short and backwardly inclined tips

* Misprinted *Bubalis* in original.

suddenly compressed and sharply differentiated from the palms, which are "edged."

No specimen in collection.

T².—*Bos caffer hylæus*.

Bubalus caffer hylæus, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 44, 1914.

Typical locality Ja Valley, south-east Cameruns.

Type in Senckenberg Museum, Frankfurt-am-Main.

Very similar to *B. c. diehli*, but smaller; skull narrower, especially in the region of the muzzle, which is proportionately longer, with less prominent orbits; horns small, with narrow, flat palms, practically devoid of basal thickening, and more inclined backwards than in *B. c. diehli*, although less so than in the type of *B. c. nanus*, and with long, slender tips, lying in the main behind frontal plane, and directed backwards and slightly inwards and downwards at extremities; general colour of female deep reddish brown, richer and clearer on flanks and under-parts, with more or less black on face and the throat orange-brown; neck with black mane; shoulders and thighs with an admixture of black, and legs wholly black; tail paler than back, with black tip. This is the smallest of all the races; the horns lack the inward curvature of the type of *B. c. nanus*.

No specimen in collection.

T³.—*Bos caffer adametzi*.

Bubalus adametzi, Matschie, *Beröff. Inst. Jagdkunde*, vol. ii, pp. 167 and 169, fig. 81, 1913.

Typical locality Donga Valley, a tributary of the Benue, Cameruns.

Type in Berlin Museum.

A red buffalo, with broad horns, of which the short tips are directed mainly upwards, so as to be nearly parallel, and to form approximately a right angle with the axis of the basal half of the horn.

No specimen in collection definitely referable to this race.

T⁴.—Bos caffer nuni.

Bubalus nuni, *Matschie, Beröff. Inst. Jagdkunde*, vol. ii, pp. 167 and 169, fig. 81, 1913.

Typical locality Nun Valley, a tributary of the Sanaga, Cameruns.

Type in Berlin Museum.

Stated to differ from the preceding by the longer and more inwardly inclined horn-tips, which form an acute angle with the axis of the basal half of the horn.

No specimen in collection.

Genus OVIS (p. 73).**II. OVIS MUSIMON (p. 75).**

Kowarzig, *Zool. Anz.* vol. xli, p. 440, 1913, has proposed the names *O. m. occidento-sardinensis* and *O. m. corsico-sardinensis* for muflons respectively inhabiting (1) western Sardinia, and (2) northern Sardinia and southern Corsica. Such a distribution is of itself sufficient to indicate the small value of these so-called races.

VI. OVIS AMMON (p. 92).**A¹.—Ovis ammon kozlovi.**

Ovis kozlovi, *Nasonov, Bull. Ac. Sci. St. Pétersb.* 1913, p. 621; 1914, p. 777.

Typical locality Jabarai Mountains, southern Gobi.

Type in Petrograd Museum.

Allied to *O. a. ammon* but smaller; specially distinguished by the grey-brown ground-colour of rump, traversed by an ill-defined light brownish red stripe extending on to fore part of back; horns similar to those of typical race but slighter.

No specimen in collection.

G.—Ovis ammon nigrimontana (p. 103).

Ovis poloi nigrimontana, *Nasonov, Bull. Ac. Sci. St. Pétersb.* 1914, pp. 705 and 772, pl. ii.

Typical locality Karatau (Black Mountain), province of Syr Daria, eastward of the city of Turkestan, on the right or eastern bank of the Syr Daria, Russian Turkestan (not Bokhara, as stated in vol. i, p. 104).

A relatively large race, with horns of the *O. a. karelini* type, but more expanded, and thus approximating to those of *O. a. poli*; apparently no throat-ruff.

No specimen in collection.

G¹.—Ovis ammon severtzovi.

Ovis severtzovi, *Nasonov, Bull. Ac. Sci. St. Pétersb.* 1914, p. 761.

Typical locality Karatau or Nurata range, 100 miles north-west of Samarkand, on the Bokharan frontier of Russian Turkestan.

Type in Petrograd Museum.

A smaller race (represented by the skull and horns figured in vol. 1, p. 103, as *O. a. nigrimontana*) than the last, approximating in certain respects to *O. vignei arkar*, especially in the presence of a distinct throat-ruff, which does not, however, extend on to the sides and under-surface of the head; general colour as described in vol. i, p. 104.

No specimen in collection.

I¹.—Ovis ammon collium.

Ovis collium, *Severtzow, Nachr. Ges. Natur. Moscow*, vol. viii, no. 2, p. 154, 1878; *Kowarzig, Zool. Anz.* vol. xli, p. 442, 1914.

Ovis poloi collium, *Nasonov, Bull. Ac. Sci. St. Pétersb.* 1914, p. 744, pl. iii.

(Omitted from vol. i.)

Typical locality Kirghiz Steppe, north of Lake Balkash.

Type in Moscow Museum.

Descriptions in Russian. Nasonov's figure shows a large white-muzzled argali, with horns approximating closely to the *O. a. poli* type, but stouter and less expanded.

No specimen in collection.

OTHER RACES DESCRIBED.

a.—*O. poli adametzi*, *Kowarzig*, *Zool. Anz.* vol. xli, p. 442, 1913.

Represented by an argali from the Lob Nor district, characterised by the horns in their first half-turn lying parallel to the long axis of the skull, and having their tips so much bent backwards that when the skull is placed horizontally they reach beyond its lower plane.

b.—*Ovis middendorfi*, *Kowarzig*, *Zool. Anz.* vol. xli, p. 443, 1913.

Proposed for a sheep from the Ud Valley, on the southwest side of the Sea of Ochotsk, identified by Middendorff with *O. canadensis nivicola*, but which, according to the author, has nothing to do with that species and race. So far as the original mention is concerned, the designation is a *nomen nudum*.

VII. *OVIS CANADENSIS* (p. 109).**O.—*Ovis canadensis borealis*** (p. 121).

Ovis borealis lydekkeri, *Kowarzig*, *Zool. Anz.* vol. xli, p. 443, 1913.

Typified by No. 2. 4. 26. 2, which is regarded by Kowarzig as distinct from the true *borealis*, although on what grounds is not stated in the original notice.

Genus CAPRA (p. 129).

In *The Field* for 1913 (vol. cxxii, p. 1251*) the writer has given reasons for regarding the horns of all wild goats except the markhor as homonymous. This will justify the adoption, at least in a subgeneric sense, of Trouessart's *Orthægoceros*.†

* The article is reproduced, in a paraphrased form, in Theodore Cook's *The Carver of Life*, London, 1914, p. 211.

† Misprinted *Orthagoceros* in vol. i, pp. 129 and 162.

VOL. II.

Genus BUBALIS (p. 3).

II. BUBALIS MAJOR (p. 6).

A.—Bubalis major major.

Bubalis major major, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 33, 1914.

General characters those of the species. Includes most of the specimens catalogued in vol. ii, pp. 7, 8, with the exception of those from northern Nigeria.

B.—Bubalis major invadens.

Bubalis major invadens, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 33, 1914.

Typical locality Garua, Benue Valley, Adamaua, Nigeria.

Type in Senckenberg Museum, Frankfurt-am-Main.

Horns stouter than in typical race, with the long tips slightly divergent or parallel, and less twisting in the middle of the length; frontal region of skull slightly convex, but less bent upwards; jugal mainly deep, but its front border not squared, and passing imperceptibly into the masseteric crest of the maxilla.

Nos. 13. 3. 8. 3 and 95. 8. 25. 1–3, together with the other northern Nigerian specimen catalogued in vol. ii, p. 7, belong to this race.

C.—Bubalis major matschiei.

Bubalis major matschiei, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 34, 1914.

Typical locality Kpandu district, Togoland.

Type in Senckenberg Museum, Frankfurt-am-Main.

Horns very large and expanded, with markedly divergent tips, and the angle formed by them with the short, strongly

twisted, and regularly convergent middle portion generally smaller than in the N. Nigerian race; forehead flat, without upward bend; jugal deep, with a squared front border, sharply defined from the small masseteric crest of the maxilla.

No specimen in collection.

IV. BUBALIS COKEI (p. 13).

The following names, in addition to those quoted in vol. ii, have been applied to local forms of this species:—

- a.*—*Bubalis cokei wembaerensis*, *Zukowsky, Wild und Hund*, vol. xvi, p. 208, 1910, *Arch. Naturgesch.* vol. lxxix, p. 98, 1913.

Typical locality Wembaer Plains, German East Africa.

- b.*—*Bubalis cokei sabakiensis*, *Zukowsky, Wild und Hund*, vol. xvi, p. 225, 1910, *Arch. Naturgesch.* vol. lxxix, p. 97, pl. i, 1913.

Typical locality Sabaki Valley, Athi Plains, British East Africa.

- c.*—*Bubalis cokei tanæ*, *Zukowsky* (ex *Matschie, MS.*), *Arch. Naturgesch.* vol. lxxix, p. 97, 1913.

Typical locality Tana Valley, British East Africa.

- d.*—*Bubalis cokei schillingsi*, *Zukowsky* (ex *Matschie*), *Arch. Naturgesch.* vol. lxxix, p. 99, 1913.

Bubalis schillingsi, *Matschie, Schillings, Mit Blitzlicht und Büchse im Zauber des Elelescho*, p. 384, 1910: nomen nudum.

Typical locality Pangani Valley, East Africa.

VI. BUBALIS LELWEL (p. 19).

Nos. 0. 6. 4. 1 and 11. 8. 14. 28–29 (p. 20) have been referred by Blaine, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 335, 1914, to a new species, *B. bubastis*, which, as being extinct, does not come within the purview of this Catalogue.

B¹.—Bubalis lelwel modestus.

Bubalis lelwel modestus, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 32, 1914.

Typical locality Bahr Kita, upper Shari district.

Type in Senckenberg Museum, Frankfurt-am-Main.

Nearly related to *B. l. tschadensis*, but smaller and darker, with the short basal portion of the horns less nearly vertical, and the angle formed by this and the middle portion smaller; general colour dull reddish brown, darker on loins, paler on fore-quarters and flanks, and passing into ochery buff on under-parts. Stated to be in some degree intermediate between the Lake Chad and Eastern Sudan races, although less rufous and with more nearly vertical horn-bases than either of the latter.

No specimen in collection.

C¹.—Bubalis lelwel keniae.

Bubalis lelwel keniae, Heller, *Smithson. Misc. Collect.* vol. lxi, no. 17, p. 3, 1913.

Typical locality northern Kenia Plateau, British East Africa.

Type in U.S. National Museum, Washington.

Closely allied to *B. l. jacksoni*, but with more divergent horns and shorter horn-pedicle; general colour cinnamon-rufous, becoming lighter on flanks and under-parts. Distinguished from the *B. cokei* group by V-shaped horns, larger size, and longer head. Represents the extreme western extension of *B. lelwel*.

No specimen in the collection can be definitely referred to this form.

VI^A. BUBALIS LUZARCHEI.

Bubalis luzarchei, Grandidier, *Bull. Mus. Paris*, 1914, p. 316.

Typical locality upper Gambia.

Type in the Paris Museum.

Characterised by the excessive elongation of the face (inclusive of the horn-pedicle, with U-shaped horns, which

are less curved than those of *B. major*), and approximate in contour to those of *B. lelwel*, from all the forms of which this species is stated to present well-marked differences; general colour grey-roan, duller than in *B. major* and approximating to the hues of *Hippotragus equinus*; limbs somewhat darker.

No specimen in collection.

Genus DAMALISCUS (p. 32).

IV. DAMALISCUS KORRIGUM (p. 39).

Blaine has shown that the western races, which inhabit more or less arid districts, are characterised by the concave facial profile, narrow muzzle, and long, much recurved, and compressed horns; while the eastern forms, which mainly frequent moist districts, have the profile more nearly straight, the muzzle broader, the nasals longer, and the horns shorter, less recurved, and cylindrical. The purple bloom, which is absent in the typical race, appears in the Northern Nigerian *D. k. purpurescens*, and attains its fullest development in the Juba race.

A¹.—*Damaliscus korrigum lyra*.

Damaliscus koba lyra, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 34, 1914; Blaine, *ibid.* p. 332.

Typical locality Gribingi Valley, upper Shari district.

Type in Senckenberg Museum, Frankfurt-am-Main.

Differs from *D. k. korrigum*, of Lake Chad and lower Shari districts, by the thinner horns, of which the tips are strongly curved upwards and inwards, and the more slender skull, which is markedly narrower across the orbits. From *D. k. tiang*, which has a similarly narrow skull, this race differs by the marked curvature of the horn-tips.

No specimen in collection.

A².—*Damaliscus korrigum purpurescens*.

Damaliscus korrigum purpurescens, *Blaine, Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, pp. 329 and 333, 1914.

Typical locality Ibi, Northern Nigeria.

Distinguished from the typical race by the suffusion of the light bay general colour with a pale mauve bloom, and the presence of an indistinct dusky eye-stripe, terminating in a spot below each ear, as well as by the less marked concavity of the cranial profile.

Typified by No. 7. 7. 8. 245, and including No. 7. 7. 8. 246 (vol. ii, p. 41).

D¹.—*Damaliscus korrigum topi*.

Damaliscus korrigum jimela, *supra*, vol. ii, p. 44, partim.

Damaliscus korrigum topi, *Blaine, Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, pp. 330 and 333, 1914.

Typical locality Malindi, British East Africa, the range including the coast districts of B. E. Africa between the Juba and Sabaki Valleys.

Size smaller than in other races; general colour purplish red (darker than in *D. k. tiang*) suffused with a greyish mauve bloom, lighter on under-parts; face-blaze ashy black, with a rusty tinge and sprinkling of white hairs; eye-stripe more or less distinct; black body-markings obscured by darkness of general colour; horns short and cylindrical; skull smaller than in any other race, with relatively longer nasals, and straight profile.

14. 2. 2. 1. Skull, with horns, and skin. Near Malindi, B. E. Africa; collected by Sir F. J. Jackson, K.C.M.G., C.B. Type. *Presented by Messrs. Rowland Ward, Ltd.*, 1914.

The specimens from the same locality (Nos. 93. 4. 10. 4 and 93. 6. 20. 1), catalogued on page 45 of vol. ii, also pertain to this race.

E.—*Damaliscus korrigum jimela*.

Damaliscus korrigum jimela, *supra*, vol. ii, p. 44, partim.

Damaliscus korrigum ugandæ, *Blaine, Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, pp. 330 and 334, 1914.

Typical locality apparently Unyamwesi,* south-east of the Victoria Nyanza.

Size large; general colour maroon, suffused with an ashy bloom, continued on to under-parts; face-blaze blue-black; eye-stripe more or less nearly obsolete; horns as in preceding race, but skull much larger and heavier.

Blaine's *D. k. ugandæ*, based on the Ankoli specimens catalogued in vol. ii, can scarcely be other than Matschie's *D. jimela*, which appears to have been named from an incorrectly coloured sketch, and the description of which is consequently incorrect.

E¹.—*Damaliscus korrigum eurus*.

Damaliscus korrigum eurus, Blaine, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, pp. 330 and 335, 1914.

Typical locality Ussangu, German East Africa.

General colour as in *D. k. jimela (ugandæ)*, but lightening to bright reddish bay on hind-quarters; dark eye-stripe distinct, and extending to the sub-auricular spot. Represented by the specimens from the Ruaha Valley (Nos. 5. 2. 2. 18–19) catalogued on p. 45 of vol. ii.

This is the most southerly member of the species, the further southern extension is barred by the Tanganyika Plateau, beyond which the Korrigum is replaced by its near ally the Sassaby.

Genus CONNOCHÆTES (p. 48).

II. CONNOCHÆTES TAURINUS (p. 54).

B¹.—*Connochætes taurinus cooksoni*.

Connochætes taurinus cooksoni, Blaine, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 337, 1914.

Typical locality Loangwa Valley, north-east Rhodesia.

Like *C. t. johnstoni*, but lacking the light frontal chevron, and the whole colour paler and greyer.

The type is No. 6. 5. 2. 2 (vol. ii, p. 56). No. 6. 5. 2. 1 also belongs to this race.

* Not Juba Valley, as stated in vol. ii, p. 45.

E.—*Connochætes taurinus mearnsi*.

Gorgon albojubatus mearnsi, Heller, *Smithson. Misc. Collect.* vol. lxi, no. 17, p. 1.

Typical locality Loita Plains, British East Africa.

Type in U.S. National Museum, Washington.

Differs from *C. t. albojubatus* by smaller bodily size, less spreading and more deflected horns, and darker limbs. Whether such differences are worthy of racial distinction may be doubtful.

No specimen in collection definitely referable to this form.

The following names have been applied to white-bearded gnus from German East Africa:—

a.—*Connochætes albojubatus lorenzi*, Zukowsky, *Arch. Naturgesch.* vol. lxxix, p. 81, 1913.

b.—*Connochætes albojubatus schulzi*, Zukowsky, *op. cit.* p. 83, 1913.

c.—*Connochætes albojubatus henrici*, Zukowsky, *op. cit.* p. 97, 1913.

Genus CEPHALOPHUS (p. 60).**XVI. CEPHALOPHUS CASTANEUS (p. 81).****A.—*Cephalophus castaneus castaneus*.**

Size small; rostral portion of skull somewhat longer than interorbital width.

B.—*Cephalophus castaneus orientalis*.

Cephalophus dorsalis orientalis, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 35, 1914.

Typical locality Wellé Valley, Congo.

Type in Senckenberg Museum, Frankfurt-am-Main.

Size larger; rostral portion of skull considerably longer than interorbital width.

7. 7. 8. 224 (vol. ii, p. 82) is a paratype.

XXVI. CEPHALOPHUS (GUEVEI) MELANORHEUS
(p. 96).

D¹.—*Cephalophus melanorheus schultzei*.

Cephalophus caerulus * *schultzei*, *Schwartz, Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 35, 1914.

Typical locality Bumba Valley, southern Cameruns.

Type in Senckenberg Museum, Frankfurt-am-Main.

Allied to *C. m. æquatorialis (bakeri)* † but with lighter under-parts, which in some examples are nearly white, but in others more or less faintly suffused with smoky grey; general colour dark chocolate-brown (warm sepia), brighter than in *C. melanorheus*, which this duiker also exceeds in size.

Some or all of the specifically undetermined specimens from the Cameruns entered in vol. ii, pp. 99 and 100, are probably referable to this race.

XXXII. CEPHALOPHUS (SYLVICAPRA) GRIMMI
(p. 107).

G.—*Cephalophus grimmi abyssinicus* (p. 117).

14. 10. 18. 3. Skull, with horns. Bahr-el-Ghazal.

Presented by Col. C. F. Blane, 1914.

G¹.—*Cephalophus grimmi pallidior*.

Sylvicapra grimmia pallidior, *Schwarz, Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 36, 1914.

Typical locality Shari Valley.

Type in Senckenberg Museum, Frankfurt-am-Main.

Rather larger and distinctly paler than *C. g. abyssinicus*, with more prominent orbits and bigger auditory bullæ;

* Schwarz adopts this name in place of *C. monticola*, which he states is a synonym of *Ourebia oribi*, and includes *melanorheus* and *nyasa* in that species.

† See vol. ii, p. 98, where it should have been stated that the typical locality is the Ituri: *bakeri* is recognised as a distinct race by Schwarz.

general colour strongly speckled pale yellow and black, with dorsal stripe but little darker.

7. 7. 8. 226-7, and probably 1. 5. 4. 8 (vol. ii, p. 118), are referable to this race.

G².—*Cephalophus grimmi luteus*.

Cephalophus grimmia lutea, Dollman, *Proc. Zool. Soc.* 1914, p. 318, *Abstr. P.Z.S.* 1914, p. 26.

Typical locality Mount Maroto, Uganda.

Allied to *C. g. abyssinicus*, but paler and with bigger cheek-teeth. General colour pale greyish buff, the buff predominant on neck, shoulders, and flanks, and the grey more noticeable on back and hind-quarters; the whole coloration very similar to that of typical South African race.

13. 10. 18. 164. Skull and skin, female. Mount Maroto, 3,700 feet; collected January, 1913. Type.

Presented by G. P. Cosens, Esq., 1913.

13. 10. 18. 165. Skull, with horns, and skin, immature. Same locality. *Same history.*

13. 10. 18. 166. Skull, with horns, and skin, immature. Falabek, east of Nimule, Uganda. *Same history.*

M.—*Cephalophus grimmi deserti*.

Sylvicapra grimmia deserti, Heller, *Smithson. Misc. Collect.* vol. lxi, no. 17, p. 4.

Typical locality Voi, British East Africa.

Type in U.S. National Museum, Washington.

Stated to be of relatively large size, and lighter in colour, with shorter coat and less inclined horns, than other East African races of this species; general colour buffish, without the tawny tinge of the highland forms, and with the dark chin-spots faint or obsolete. Lacks the dark ochery tinge of the lowland *C. g. hindei*, and is much larger and lighter than *C. g. roosevelti*.

No specimen in collection.

Genus OUREBIA (p. 132).**IV. OUREBIA MONTANA** (p. 138).**A.—Ourebia montana montana** (p. 139).

14. 10. 18. 4. Skull and horns. Near Rumbek, Bahr-el-Ghazal. *Presented by Col. C. F. Blane, 1914.*

A¹.—Ourebia montana dorcas.

*Ourebia ourebi** *dorcas*, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 37, 1914.

Typical locality Bahr Keeta, upper Shari district.

Type in Senckenberg Museum, Frankfurt-am-Main.

Smaller and more brightly coloured than *O. m. montana*, with narrower brain-case and auditory bullæ; general colour dull orange-fawn, lighter on neck and flanks, and still more so on thighs; tail rather darker on back above, with the tip deep rufous.

No specimen in collection.

A².—Ourebia montana splendida.

Ourebia ourebi splendida, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 38, 1914.

Typical locality between Jogto and Lai, east of Logone Valley, North-west Africa.

Type in Senckenberg Museum, Frankfurt-am-Main.

Differs from *O. m. dorcas* by the shorter coat, brighter colour (orange-buff), and more definite markings.

No specimen in collection.

B.—Ourebia montana æquatoria (p. 140).

14. 10. 18. 5. Skull, with horns, provisionally referred to this race. Uganda. *Presented by Col. C. F. Blane, 1914.*

* Schwarz regards both *O. montana* and *O. nigricaudata* as specifically inseparable from the typical representative of the genus.

Genus NEOTRAGUS (p. 158).**V. NEOTRAGUS PYGMÆUS** (p. 169).

10. 6. 11. 1. Skull, imperfect, and skin, young.
Bibiani,* near Dunkwa, Gold Coast.

Presented by Dr. H. G. F. Spurrell, 1910.

Genus REDUNCA (p. 202).**II. REDUNCA REDUNCA** (p. 211).**E.—Redunca redunca cottoni** (p. 217).

14. 10. 18. 1. Skull, with horns. Shambe, Bahr-el-Ghazal.
Presented by Col. C. F. Blane, 1914.

14. 10. 18. 2. Skull, with horns. Rumbek, Bahr-el-Ghazal.
Same history.

Genus KOBUS (p. 225).**II. KOBUS DEFASSA** (p. 232).

To list on p. 238 add:—

v.—*Kobus defassa togoensis*, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 238, 1914.

Typical locality Togoland, West Africa.

Type in Senckenberg Museum, Frankfurt-am-Main.

Stated to differ from *K. d. unctuosus* by the more massive skull (in which the facial portion is rather short and narrow, and the premaxillæ are squared in front) and strongly curved horns, of which the tips are short and inclined inwards and upwards.

N.B.—The albino, No. 3. 6. 7. 1, entered on p. 240 of vol. ii, under the heading of *K. d. defassa*, should have been placed under that of *K. d. crawshayi* (p. 244).

* Bibianaha in text.

VII. KOBUS (ADENOTA) KOB (p. 253).

A¹.—*Kobus kob riparius*.

Adenota kob riparia, Schwarz, *Ann. Mag. Nat. Hist.* ser. 8, vol. xiii, p. 39, 1914.

Typical locality Kpandu district, western Togoland.

Type in Senckenberg Museum, Frankfurt-am-Main.

Allied to *K. k. kob* and *K. k. nigricans*, but smaller, and thus the most diminutive member of the group. Horns much as in the former, but shorter, slightly more curved inferiorly, and stouter, with shorter and more forwardly inclined tips; skull broad, with more prominent orbits but shorter rostrum than that of *K. k. nigrifrons*.

No specimen in collection.

VOL. III.

Genus GAZELLA (p. 28).

XXV. GAZELLA (NANGER) SOEMMERRINGI

(p. 96).

A.—*Gazella soemmerringi soemmerringi* (p. 98).

14. 8. 1. 1. Skin, mounted, of a small and pale-coloured individual provisionally referred to this race. Dinder Valley, Sudan. Presented by Major C. P. Bradshaw, 1914.

CORRIGENDA.

VOL. I.

- Page 20, line 12 from bottom, *for* 9 *read* 10.
 „ 21, line 3 from bottom, *for* *Verk.* *read* *Verh.*
 „ 29, line 2 from top, *for* *B. s. birmanicus* *read* *B. b. birmanicus*.^{*}
 „ 56. No. 11. 12. 13. 1. *Add*—Athi Plains, Brit. E. Africa.
 „ 81, last line, *for* R. S. Günther *read* R. T. Günther.
 „ 88, line 7 from top, *after* 514 *add* 1842.
 „ 102, line 6 from bottom, *for* 2. 3. 9. 8 *read* 2. 3. 9. 6.
 „ 129, bottom line, and p. 162, line 16 from top, and in Index, pp. 243, 244, *for* *Orthagoceros* *read* *Orthægoceros*.
 „ 160, line 10 from top, *for* 50 *read* 55½.
 „ 178, line 4 from top, *for* H. MacGregor *read* Atholl MacGregor.
 „ 182, line 4 from bottom, *for* 7¼³/₈ *read* 7½.
 „ 184, line 2 from bottom, *for* 2⁷/₁₆ *read* 2¾.

VOL. II.

- Page 45, line 20 from bottom, *for* Africa *read* B. E. Africa.
 „ 52. Nos. 96. 11. 28. 5-7 were presented, as well as collected, by Mr. Selous.
 „ 98. *Add* *Cephalophus æquatorialis bakeri* to Index.
 „ 117, line 14 from bottom, *after* subspecifically *add* distinct.
 „ 171, line 8 from bottom, *for* Bibianaha *read* Bibiani.
 „ 249, lines 13 and 14 from bottom, *for* Loango Valley *read* Luongo River.

VOL. III.

- Page 191, line 14 from bottom, *for* Lungo *read* Luongo.

VOL. IV.

- Page 120, line 12 from bottom, *insert* and *before* Tunisia, and *omit* and Senegambia.

* The name *Bos banteng* was substituted for *B. sondaicus* as the text was passing through the press, and the need for alteration in this case was overlooked.

INDEX

OF GENERA AND SPECIES

- abessinica minor, Procavia, 66
 abyssinica, Procavia, 65
 abyssinica typica, Procavia, 66
 abyssinicus, Hyrax, 62, 65
 Acrocodia, 39
 Acrocodia indica, 40
 (Acrocodia) indicus, Tapirus, 39
 adamauæ, Bos caffer, 95
 adamauæ, Bubalus caffer, 95
 adametzi, Bos caffer, 96
 adametzi, Bubalus, 96
 adametzi, Ovis poli, 99
 adametzi, Procavia adametzi, 78
 adametzi, Procavia (Dendrohyrax), 78
 adametzi zenkeri, Procavia, 79
 adametzi zenkeri, Procavia (Dendrohyrax), 79
 (Adenota) kob, Kobus, 111
 Adenota kob riparia, 111
 adolfi-friederici, Procavia (Dendrohyrax), 79
 æquatorialis (bakeri), Cephalophus melanorheus, 107
 æquinoctialis, Bos caffer, 94
 africana, Loxodonta, 85
 africanus albertensis, Elephas, 91
 africanus, Asinus, 38
 africanus capensis, Elephas, 86
 africanus cavendishi, Elephas, 89
 africanus cottoni, Elephas, 87
 africanus cyclotis, Elephas, 87
 africanus, Elephas, 85
 africanus, Elephas (Loxodon), 86
 africanus, Elephas (Loxodonta), 85, 86
 africanus, Equus, 38
 africanus, Equus asinus, 37, 38
 africanusknochenhaueri, Elephas, 88
 africanus knochenhaueri, Elephas, 88
 africanus, Loxodon, 86
 africanus orleansi, Elephas, 90
 africanus oxyotis, Elephas, 89
 africanus peeli, Elephas, 88
 africanus pumilio, Elephas, 87
 africanus, Rhinoceros, 53
 africanus rothschildi, Elephas, 91
 africanus selousi, Elephas, 87
 africanus toxotis, Elephas, 86
 africanus typicus, Elephas, 86
 albertensis, Elephas africanus, 91
 albojubatus henrici, Connochætes, 106
 albojubatus lorenzi, Connochætes, 106
 albojubatus mearnsi, Gorgon, 106
 albojubatus schulzi, Connochætes, 106
 alpini, Hyrax, 62
 alpini, Procavia, 62
 americanus laurillardi, Tapirus, 43
 americanus var. mexianæ, Tapirus, 43
 americanus, Tapir, 41
 americanus, Tapirus, 41, 45
 ammon collium, Ovis, 98
 ammon kozlovi, Ovis, 97
 ammon nigrimontana, Ovis, 98
 ammon, Ovis, 97
 ammon severtzovi, Ovis, 98
 annectans, Equus burchelli, 27
 annectens, Equus, 27
 annectens, Equus quagga, 27
 anta, Tapir, 41
 antiquorum, Equus, 23
 antiquorum, Equus burchelli, 23
 antiquorum, Equus chapmani, 23
 antiquorum, Equus quagga, 22
 antiquorum, Hippotigris, 22
 arborea, Procavia, 77
 arborea, Procavia (Dendrohyrax), 76
 arboreus, Dendrohyrax, 76
 arboreus, Hyrax, 68, 76
 aschantiensis, Procavia (Dendrohyrax), 78
 asiaticus, Elephas, 82
 asiaticus, Rhinoceros, 48

- Asinus*, 36
Asinus africanus, 38
asinus africanus, *Equus*, 37, 38
asinus var. africanus, *Equus*, 38
(*Asinus*) *asinus*, *Equus*, 36, 37
Asinus burchellii, 21
Asinus equioides, 9
asinus, *Equus*, 36
asinus, *Equus* (*Asinus*), 36, 37
asinus, *Equus asinus*, 37
Asinus hamar, 14
Asinus hemionus, 9, 11
(*Asinus*) *hemionus*, *Equus*, 11
Asinus hemippus, 14
(*Asinus*) *hemippus*, *Equus*, 14
Asinus indicus, 12
Asinus kiang, 9
Asinus kyang, 9
Asinus onager, 12
(*Asinus*) *onager*, *Equus*, 12
Asinus polyodon, 9
Asinus quagga, 20
Asinus somalicus, 39
asinus somalicus, *Equus*, 38
asinus var. somalicus, *Equus*, 38
Asinus somaliensis, 38
asinus somaliensis, *Equus*, 38
Asinus tæniopus, 38
asinus tæniopus, *Equus*, 38
Asinus vulgaris, 37
Asinus vulgaris var. tæniopus, 38
Asinus zebra, 35
(*Asinus*) *zebra*, *Equus*, 35
Ass, 37
athiensis, *Bos caffer*, 92
athiensis, *Bubalus caffer*, 92
Atelodus, 51
Atelodus bicornis, 54
Atelodus keitloa, 54
Atelodus oswelli, 56
Atelodus sinus, 56

Baird's Tapir, 45
bairdi, *Tapirella*, 45
bairdi, *Tapirus*, 45
bairdi, *Tapirus* (*Elasmognathus*), 45
bairdi, *Tapirus* (*Tapirella*), 45
bairdii, *Elasmognathus*, 45
bakeri, *Cephalophus melanorheus æquatorialis*, 107
bakeri, *Dendrohyrax*, 69
bamendæ, *Procavia*, 75
bengalensis, *Elephas indicus*, 82
berberensis, *Equus grevyi*, 18
bettoni, *Dendrohyrax*, 78

bettoni, *Procavia*, 78
bettoni, *Procavia* (*Dendrohyrax*), 78
Biceros bicornis, 54
bicolor, *Tapirus*, 40
bicornis, *Atelodus*, 54
bicornis, *Biceros*, 54
bicornis capensis, *Rhinoceros*, 53
bicornis cucullatus, *Rhinoceros*, 55
bicornis, *Diceros*, 54
bicornis holmwoodi, *Rhinoceros*, 54
bicornis, *Keitloa*, 54
bicornis, *Opsiceros*, 54
bicornis, *Rhinaster*, 54
bicornis, *Rhinoceros*, 52
bicornis, *Rhinoceros bicornis*, 54
bicornis, *Rhinoceros* (*Diceros*), 52, 54
bicornis somaliensis, *Diceros*, 55
bicornis somaliensis, *Rhinoceros*, 55
bicornis sumatrensis, *Rhinoceros*, 50
Black *Rhinoceros*, 54
blainvillei, *Heterohyrax*, 69
blainvillii, *Dendrohyrax*, 69
blythi, *Ceratorhinus*, 50
blythi, *Rhinoceros sumatrensis*, 50
bocagei, *Hyrax*, 76
boehmi, *Equus burchellii*, 26
boehmi, *Equus chapmani*, 26
boehmi, *Equus quagga*, 26
böhmi, *Equus*, 26
Bontequagga, 22
borana, *Procavia brucei*, 70
borealis lydekkeri, *Ovis*, 99
borealis, *Ovis canadensis*, 99
Bos, 92
Bos (*Bubalus*) *caffer*, 92
Bos caffer adamauæ, 95
Bos caffer adametzi, 96
Bos caffer æquinoctialis, 94
Bos caffer athiensis, 92
Bos caffer brachyceros, 94
Bos caffer diehli, 95
Bos caffer houyi, 94
Bos caffer huntii, 95
Bos caffer hylæus, 96
Bos caffer nuni, 97
bounhioli, *Procavia*, 74
brachyceros, *Bos caffer*, 94
Brazilian Tapir, 42
brucei borana, *Procavia*, 70

- brucei granti, Procavia, 71
 brucei hindei, Procavia, 70
 brucei, Hyrax, 65, 69
 brucei kempfi, Procavia, 72
 brucei maculata, Procavia, 71
 brucei manningi, Procavia, 72
 brucei princeps, Procavia, 73
 brucei, Procavia, 69
 brucei, Procavia brucei, 69
 brucei ruddi, Procavia, 71
 brucei somalica, Procavia, 70
 brucei thomasi, Procavia, 72
 brucei typica, Procavia, 69
 Bubalis, 100
 Bubalis bubastis, 101
 Bubalis cokei, 101
 Bubalis cokei sabakiensis, 101
 Bubalis cokei schillingsi, 101
 Bubalis cokei tanæ, 101
 Bubalis cokei wembaerensis, 101
 Bubalis lelwel, 101
 Bubalis lelwel kenia, 102
 Bubalis lelwel modestus, 102
 Bubalis luzarchei, 102
 Bubalis major, 100
 Bubalis major invadens, 100
 Bubalis major major, 100
 Bubalis major matschiei, 100
 Bubalis schillingsi, 101
 Bubalus adamezi, 96
 Bubalus caffer adamaue, 95
 Bubalus caffer athiensis, 92
 (Bubalus) caffer, Bos, 92
 Bubalus caffer bubuensis, 93
 Bubalus caffer diehli, 95
 Bubalus caffer houyi, 94
 Bubalus caffer hylæus, 96
 Bubalus caffer tanæ, 93
 Bubalus diehli, 95
 Bubalus hunti, 95
 Bubalus massaicus, 93
 Bubalus urundicus, 94
 Bubalus wintgensis, 93
 bubastis, Bubalis, 101
 bubuensis, Bubalus caffer, 93
 Burchell's Rhinoceros, 56
 Burchell's Zebra, 22
 burchelli annectans, Equus, 27
 burchelli antiquorum, Equus, 23
 burchelli boehmi, Equus, 26
 burchelli chapmani, Equus, 24
 burchelli crawshaii, Equus, 27
 burchelli crawshayi, Equus, 27
 burchelli, Equus quagga, 21, 22
 burchelli granti, Equus, 30
 burchelli, Hippotigris, 22
 burchelli jallæ, Equus, 30
 burchelli mariæ, Equus, 27
 burchelli paucistriatus, Equus, 22
 burchelli pococki, Equus, 23
 burchelli selousi, Equus, 25
 burchelli transvaalensis, Equus, 25
 burchelli typicus, Equus, 22
 burchelli wahlbergi, Equus, 24
 burchelli zambeziensis, Equus, 26
 burchellii, Asinus, 21
 burchellii, Equus, 21
 burchellii, Rhinoceros, 56
 burtoni, Hyrax, 64
 burtoni, Procavia, 64
 butleri, Procavia, 74
 caballus, Equus, 6
 caballus, Equus caballus, 6
 caballus przewalskii, Equus, 7
 caballus typicus, Equus, 6
 cærus schultzei, Cephalophus, 107
 caffer adamaue, Bos, 95
 caffer adamaue, Bubalus, 95
 caffer adamezi, Bos, 96
 caffer æquinoctialis, 94
 caffer athiensis, Bos, 92
 caffer athiensis, Bubalus, 92
 caffer, Bos (Bubalus), 92
 caffer brachyceros, Bos, 94
 caffer bubuensis, Bubalus, 93
 caffer diehli, Bos, 95
 caffer diehli, Bubalus, 95
 caffer houyi, Bos, 94
 caffer houyi, Bubalus, 94
 caffer hunti, Bos, 95
 caffer hylæus, Bos, 96
 caffer hylæus, Bubalus, 96
 caffer nuni, Bos, 97
 caffer tanæ, Bubalus, 93
 camperi, Rhinoceros, 54
 campestris, Hippotigris, 21, 35
 camus, Rhinoceros, 56
 canadensis borealis, Ovis, 99
 canadensis, Ovis, 99
 capensis, Cavia, 58
 capensis, Elephas, 86
 capensis, Elephas africanus, 86
 capensis, Hyrax, 58
 capensis marlothi, Procavia, 60
 capensis, Procavia, 58
 capensis, Procavia capensis, 60
 capensis reuningi, Procavia, 60
 capensis, Rhinoceros bicornis, 53
 capensis schultzei, Procavia, 61

- capensis waterbergensis, Procavia, 61
 capensis windhuki, Procavia, 60
 Capra, 99
 castaneus, Cephalophus, 106
 castaneus, Cephalophus castaneus, 106
 castaneus, Equus, 13
 castaneus, Equus onager, 13
 castaneus orientalis, Cephalophus, 106
 cavendishi, Elephas africanus, 89
 Cavia capensis, 58
 Cephalophus, 106
 Cephalophus cærus schultzei, 107
 Cephalophus castaneus, 106
 Cephalophus castaneus castaneus, 106
 Cephalophus castaneus orientalis, 106
 Cephalophus dorsalis orientalis, 106
 Cephalophus grimmii abyssinicus, 107
 Cephalophus grimmii deserti, 108
 Cephalophus grimmii luteus, 108
 Cephalophus grimmii pallidior, 107
 Cephalophus grimmia lutea, 108
 Cephalophus (Guevei) melanorheus, 107
 Cephalophus melanorheus æquatorialis (bakeri), 107
 Cephalophus melanorheus schultzei, 107
 Cephalophus (Sylvicapra) grimmii, 107
 Ceratorhinus, 49
 Ceratorhinus blythi, 50
 Ceratorhinus crosseii, 51
 Ceratorhinus (crossi) lasiotis, Rhinoceros, 51
 Ceratorhinus crossii, 50
 Ceratorhinus lasiotis, 51
 Ceratorhinus niger, 50
 Ceratorhinus sumatranus, 50
 Ceratorhinus sumatrensis, 50
 Ceratorhinus, sumatrensis, Rhinoceros, 50
 (Ceratorhinus) sumatrensis, Rhinoceros, 50
 Ceratotherium, 52
 Ceratotherium oswellii, 56
 Ceratotherium simum, 56
 Ceratotherium simum cottoni, 58
 chapmani antiquorum, Equus, 23
 chapmani boehmi, Equus, 26
 chapmani crawshayi, Equus, 27
 chapmani, Equus, 23
 chapmani, Equus burchelli, 24
 chapmani, Equus quagga, 23, 24
 chapmani granti, Equus, 30
 chapmani, Hippotigris, 24
 chapmani jallæ, Equus, 30
 chapmani selousi, Equus, 25
 chapmani transvaalensis, Equus, 25
 chapmani wahlbergi, Equus, 24
 chapmani zambeziensis, Equus, 26
 chapmanni mariæ, Equus, 27
 Chigetai, 11
 Chinchecus, 41
 Cinchacus, 41
 Coelodonta, 51
 Coelodonta simus, 56
 cokei, Bubalis, 101
 cokei sabakiensis, Bubalis, 101
 cokei schillingsi, Bubalis, 101
 cokei tanæ, Bubalis, 101
 cokei wembaerensis, Bubalis, 101
 collium, Ovis, 98
 collium, Ovis ammon, 98
 collium, Ovis poloï, 98
 Connochætes, 105
 Connochætes albojubatus henrici, 106
 Connochætes albojubatus lorenzi, 106
 Connochætes albojubatus schulzi, 106
 Connochætes taurinus, 105
 Connochætes taurinus cooksoni, 105
 Connochætes taurinus mearnsi, 106
 cooksoni, Connochætes taurinus, 105
 corsico-sardinensis, Ovis musimon, 97
 cottoni, Diceros simus, 58
 cottoni, Elephas africanus, 87
 cottoni, Rhinoceros simus, 56
 crawshaii, Equus burchelli, 27
 crawshaii, Equus quagga, 27
 crawshayi, Dendrohyrax, 79
 crawshayi, Equus, 27
 crawshayi, Equus burchelli, 27
 crawshayi, Equus chapmani, 27
 crawshayi, Equus quagga, 27
 crawshayi laikipia, Procavia, 79
 crawshayi, Procavia, 79

- crawshayi, *Procavia* crawshayi, 79
 crawshayi, *Procavia* (*Dendrohyrax*), 79
 crossei, *Ceratorhinus*, 51
 crossei, *Rhinoceros*, 51
 crossii, *Ceratorhinus*, 50
 cucullatus, *Rhinoceros*, 55
 cucullatus, *Rhinoceros bicornis*, 55
 cuninghamei, *Equus quagga*, 28
 cyclotis, *Elephas africanus*, 87
 cyclotis, *Loxodon*, 87
- dæmon, *Procavia*, 68
Damaliscus, 103
Damaliscus koba lyra, 103
Damaliscus korrigum, 103
Damaliscus korrigum eurus, 105
Damaliscus korrigum jimela, 104
Damaliscus korrigum lyra, 103
Damaliscus korrigum purpurescens, 104
Damaliscus korrigum topi, 104
Damaliscus korrigum ugandæ, 104
 danielli, *Equus quagga*, 21
 Dassie, 59
 Dauw, 22
 defassa, *Kobus*, 110
Dendrohyrax, 75
 (*Dendrohyrax*) adametzi, *Procavia*, 78
 (*Dendrohyrax*) adametzi zenkeri, *Procavia*, 79
 (*Dendrohyrax*) adolfi-friederici, *Procavia*, 79
 (*Dendrohyrax*) arborea, *Procavia*, 76
Dendrohyrax arboreus, 76
 (*Dendrohyrax*) aschantiensis, *Procavia*, 78
Dendrohyrax bakeri, 69
Dendrohyrax bettoni, 78
 (*Dendrohyrax*) bettoni, *Procavia*, 78
Dendrohyrax blainvillii, 69
Dendrohyrax crawshayi, 79
 (*Dendrohyrax*) crawshayi, *Procavia*, 79
Dendrohyrax dorsalis, 77
 (*Dendrohyrax*) dorsalis, *Procavia*, 77
Dendrohyrax emini, 76
 (*Dendrohyrax*) emini, *Procavia*, 76
- Dendrohyrax grayi*, 77
 (*Dendrohyrax*) marmota, *Procavia*, 78
Dendrohyrax neumanni, 77
 (*Dendrohyrax*) neumanni, *Procavia*, 77
Dendrohyrax scheelei, 75
 (*Dendrohyrax*) scheelei, *Procavia*, 75
 (*Dendrohyrax*) scheffleri, *Procavia*, 80
Dendrohyrax stuhlmanni, 77
 (*Dendrohyrax*) stuhlmanni, *Procavia*, 77
Dendrohyrax terricola, 78
 (*Dendrohyrax*) terricola, *Procavia*, 78
 (*Dendrohyrax*) tessmanni, *Procavia*, 79
Dendrohyrax validus, 75
 (*Dendrohyrax*) valida, *Procavia*, 75
 deserti, *Cephalophus grimmi*, 108
Dicerorhinus, 49
Dicerorhinus sumatrensis, 50
Dicerorhinus sumatrensis lasiotis, 51
 (*Dicerorhinus*) sumatrensis, *Rhinoceros*, 49
Diceros, 51
Diceros bicornis, 54
 (*Diceros*) bicornis, *Rhinoceros*, 52, 54
Diceros bicornis somaliensis, 55
Diceros simus, 56
Diceros simus cottoni, 58
 (*Diceros*) simus, *Rhinoceros*, 55, 56
 diehli, *Bos caffer*, 95
 diehli, *Bubalus*, 95
 diehli, *Bubalus caffer*, 95
Dolichohippus, 15
Dolichohippus grevyi, 18
 (*Dolichohippus*) grevyi, *Equus*, 17
 dongolanus, *Hyrax*, 64
 dorsalis, *Dendrohyrax*, 77
 dorsalis, *Hyrax*, 77
 dorsalis orientalis, *Cephalophus*, 106
 dorsalis, *Procavia*, 77
 dorsalis, *Procavia* (*Dendrohyrax*), 77
 Dow's Tapir, 46
 dowi, *Elasmognathus*, 46
 dowi, *Tapirella*, 46

- dowi, *Tapirus*, 46
dowi, *Tapirus* (*Tapirella*), 46
- ecuadorensis, *Tapirus*, 41
Elasmognathus, 44
(*Elasmognathus*) bairdi, *Tapirus*, 45
Elasmognathus bairdii, 45
Elasmognathus dowi, 46
Elephas, 80, 81
Elephas africanus, 85
Elephas africanus albertensis, 91
Elephas africanus capensis, 86
Elephas africanus cavendishi, 89
Elephas africanus cottoni, 87
Elephas africanus cyclotis, 87
Elephas africanus knochenhauseri, 88
Elephas africanus knochenhauseri, 88
Elephas africanus orleansi, 90
Elephas africanus oxyotis, 89
Elephas africanus peeli, 88
Elephas africanus pumilio, 87
Elephas africanus rothschildi, 91
Elephas africanus selousi, 87
Elephas africanus toxotis, 86
Elephas africanus typicus, 86
Elephas asiaticus, 82
Elephas capensis, 86
Elephas indicus, 81
Elephas indicus bengalensis, 82
Elephas indicus zeylanicus, 83
Elephas (*Loxodon*) africanus, 86
Elephas (*Loxodonta*) africanus, 85, 86
Elephas maximus, 81
Elephas maximus hirsutus, 84
Elephas maximus maximus, 82
Elephas maximus sumatranus, 83
Elephas maximus zeylanicus, 83
Elephas sumatranus, 83
emini, *Dendrohyrax*, 76
emini latrator, *Procavia*, 76
emini, *Procavia*, 76
emini, *Procavia* (*Dendrohyrax*), 76
emini, *Procavia emini*, 76
enigmaticus, *Tapirus*, 44
equioides, *Asinus*, 9
equioides, *Equus*, 9
Equus, 4, 6
Equus africanus, 38
Equus annectens, 27
Equus antiquorum, 23
Equus asinus, 36
Equus asinus africanus, 37, 38
Equus asinus *var. africanus*, 38
Equus asinus asinus, 37
Equus (*Asinus*) asinus, 36, 37
Equus (*Asinus*) hemionus, 11
Equus (*Asinus*) hemippus, 14
Equus (*Asinus*) onager, 12
Equus asinus somalicus, 38
Equus asinus somaliensis, 38
Equus asinus *var. somalicus*, 38
Equus asinus tæniopus, 38
Equus (*Asinus*) zebra, 35
Equus böhni, 26
Equus burchelli annectans, 27
Equus burchelli antiquorum, 23
Equus burchelli boehmi, 26
Equus burchelli chapmani, 24
Equus burchelli crawshaii, 27
Equus burchelli crawshayi, 27
Equus burchelli granti, 30
Equus burchelli jallæ, 30
Equus burchelli mariæ, 27
Equus burchelli paucistriatus, 22
Equus burchelli pococki, 23
Equus burchelli selousi, 25
Equus burchelli transvaalensis, 25
Equus burchelli typicus, 22
Equus burchelli wahlbergi, 24
Equus burchelli zambeziensis, 26
Equus burchellii, 21
Equus caballus, 6
Equus caballus caballus, 6
Equus caballus typicus, 6
Equus caballus przewalskii, 7
Equus castaneus, 13
Equus chapmani, 23
Equus chapmani antiquorum, 23
Equus chapmani boehmi, 26
Equus chapmani crawshayi, 27
Equus chapmani granti, 30
Equus chapmani jallæ, 30
Equus chapmani selousi, 25
Equus chapmani transvaalensis, 25
Equus chapmani wahlbergi, 24
Equus chapmani zambeziensis, 26
Equus chapmanni mariæ, 27
Equus crawshayi, 27
Equus (*Dolichohippus*) grevyi, 17
Equus equioides, 9
Equus ferus, 6, 7
Equus festivus, 21
Equus foai, 32
Equus gmelini, 6

- Equus goldfinchi*, 30
Equus granti, 30
Equus grevyi, 17
Equus grevyi berberensis, 18
Equus grevyi faurei, 17
Equus grevyi grevyi, 18
Equus hagenbecki, 7
Equus hamar, 14
Equus hartmannæ, 36
Equus hemionus, 9, 11, 12
Equus hemionus hemionus, 11
Equus hemionus var. indicus, 12
Equus hemionus kiang, 9
Equus hemionus var. kiang, 9
Equus hemionus var. typicus, 11
Equus hemippus, 14
Equus (Hippotigris) foai, 32
Equus (Hippotigris) quagga, 19, 20
Equus (Hippotigris) zebra, 34
Equus indica, 34
Equus indicus, 12
Equus jallæ, 30
Equus kiang, 8
Equus khur, 12
Equus (Ludolphozecora) grevyi, 18
Equus montanus, 21, 35
Equus muansæ, 30
Equus nubianus somalicus, 38
Equus onager, 12
Equus onager castaneus, 13
Equus onager hemippus, 14
Equus onager indicus, 12
Equus onager onager, 14
Equus onager typicus, 14
Equus onager var. typicus, 14
Equus penricei, 36
Equus quagga, 19
Equus quacha, 19
Equus quaccha, 19
Equus quagga, 19
Equus quagga annectens, 27
Equus quagga antiquorum, 22, 23
Equus quagga boehmi, 26
Equus quagga burchelli, 21, 22
Equus quagga chapmani, 23, 24
Equus quagga crawshaii, 27
Equus quagga crawshayi, 27
Equus quagga cuninghamei, 28
Equus quagga danielli, 21
Equus quagga granti, 30
Equus quagga greyi, 21
Equus quagga jallæ, 30
Equus quagga lorenzi, 21
Equus quagga muansæ, 30
Equus quagga mariæ, 27
Equus quagga pococki, 23
Equus quagga quagga, 20, 21
Equus quagga selousi, 25
Equus quagga trouessarti, 21
Equus quagga transvaalensis, 25
Equus quagga wahlbergi, 24
Equus quagga zambesiensis, 26
Equus somalicus, 38
Equus somaliensis, 38
Equus tæniopus, 38
Equus tigrinus, 27
Equus tigrinus selousi, 25
Equus zebra frederici, 35
Equus zebra hartmannæ, 36
Equus zebra penricei, 36
Equus wardi, 32
Equus zebra zebra, 35
Equus zebroides, 21
erlangeri, *Procavia*, 62
Euelephas, 81
Euhyrax, 58
Eurhinoceros, 46
(*Eurhinoceros*) *unicornis*, *Rhinoceros*, 48
eurus, *Damaliscus korrigum*, 105
faurei, *Equus grevyi*, 17
ferrugineus, *Hyrax*, 65, 66
ferruginea, *Procavia*, 66
ferus, *Equus*, 6, 7
festivus, *Equus*, 21
floweri, *Rhinoceros*, 49
foai, *Equus*, 32
foai, *Equus (Hippotigris)*, 32
frederici, *Equus zebra*, 35
frederici, *Hippotigris*, 35
frommi, *Procavia*, 74
frommi, *Procavia (Heterohyrax)*, 74
Gaında, 48
Gazella, 111
Gazella (Nanger) soemmerringi, 111
Gazella soemmerringi soemmer- ringi, 111
Ghor-Khar, 12, 13
Ghur, 12, 14
gmellini, *Equus*, 6
goldfinchi, *Equus*, 30
Gorgon albojubatus mearnsi, 106
goslingi, *Procavia*, 62
granti, *Equus*, 30
granti, *Equus burchelli*, 30
granti, *Equus chapmani*, 30

- granti*, *Equus quagga*, 30
granti, *Procavia brucei*, 71
grayi, *Dendrohyrax*, 77
grayi, *Procavia*, 77
 Great Indian Rhinoceros, 48
Grévy's Zebra, 18
grevyi berberensis, *Equus*, 18
grevyi, *Dolichohippus*, 18
grevyi, *Equus*, 17
grevyi, *Equus (Dolichohippus)*, 17
grevyi, *Equus (Ludolphozecora)*, 18
grevyi faurei, *Equus*, 17
grevyi grevyi, *Equus*, 18
grevyi, *Megacephalon*, 18
greyi, *Equus quagga*, 21
grimmi abyssinicus, *Cephalophus*, 107
grimmi deserti, *Cephalophus*, 108
grimmi luteus, *Cephalophus*, 108
grimmi pallidior, *Cephalophus*, 107
grimmia deserti, *Sylvicapra*, 108
grimmia lutea, *Cephalophus*, 108
grimmia pallidior, *Sylvicapra*, 107
(Guevei) melanorheus, *Cephalophus*, 107

habessinica minor, *Procavia*, 66
habessinica, *Procavia*, 65
habessinica, *Procavia habessinica*, 66
habessinicus, *Hyrax*, 65
hagenbecki, *Equus*, 7
hamar, *Asinus*, 14
hamar, *Equus*, 14
hartmannæ, *Equus*, 36
hartmannæ, *Equus zebra*, 36
hartmannæ, *Hippotigris*, 36
Hathi, 82
hemionus, *Asinus*, 9, 11
hemionus, *Equus*, 9, 11, 12
hemionus, *Equus (Asinus)*, 11
hemionus, *Equus hemionus*, 11
hemionus var. indicus, *Equus*, 12
hemionus kiang, *Equus*, 9
hemionus var. kiang, *Equus*, 9
hemionus var. typicus, *Equus*, 11
hemippus, *Asinus*, 14
hemippus, *Equus*, 14
hemippus, *Equus (Asinus)*, 14
hemippus, *Equus onager*, 14
henrici, *Connochætes albojubatus*, 106
Heterohyrax, 58
Heterohyrax blainvillei, 69

(Heterohyrax) frommi, *Procavia*, 74
(Heterohyrax) münzneri, *Procavia*, 74
(Heterohyrax) schubotzi, *Procavia*, 74
hindei, *Procavia brucei*, 70
Hippopotamus terrestris, 41
Hippotigris, 19
Hippotigris antiquorum, 22
Hippotigris burchelli, 22
Hippotigris campestris, 21, 35
Hippotigris chapmani, 24
(Hippotigris) foai, *Equus*, 32
Hippotigris frederici, 35
Hippotigris hartmannæ, 36
Hippotigris isabellinus, 20
Hippotigris muansæ, 30
Hippotigris penricei, 36
Hippotigris quacha, 19
Hippotigris quagga, 20
(Hippotigris) quagga, *Equus*, 19, 20
Hippotigris transvaalensis, 25
Hippotigris wahlbergi, 24
Hippotigris zebra, 35
(Hippotigris) zebra, *Equus*, 34
hirsutus, *Elephas maximus*, 84
holmwoodi, *Rhinoceros*, 54
holmwoodi, *Rhinoceros bicornis*, 54
houyi, *Bos caffer*, 94
houyi, *Bubalus caffer*, 94
hunti, *Bos caffer*, 95
hunti, *Bubalus*, 95
Hydrochærus tapir, 41
hylæus, *Bos caffer*, 96
hylæus, *Bubalus caffer*, 96
Hyrax, 58
Hyrax abyssinicus, 62, 65
Hyrax alpini, 62
Hyrax arboreus, 68, 76
Hyrax bocagei, 76
Hyrax brucei, 65, 69
Hyrax burtoni, 64
Hyrax capensis, 58
Hyrax dongolanus, 64
Hyrax dorsalis, 77
Hyrax ferrugineus, 65, 66
Hyrax habessinicus, 65
Hyrax irroratus, 69
Hyrax irroratus var. leucogaster, 65
Hyrax mossambicus, 69
Hyrax nigricans, 61
Hyrax ruficeps, 64

- Hyrax scioanus, 62
 Hyrax semicircularis, 59
 Hyrax sinaiticus, 63
 Hyrax stampflii, 77
 Hyrax sylvestris, 77
 Hyrax syriacus, 63
 Hyrax welwitschii, 68
- Indian Elephant, 82
 indica, Acrocodia, 40
 indica, Equus, 34
 indicus, Asinus, 12
 indicus bengalensis, Elephas, 82
 indicus, Elephas, 81
 indicus, Equus, 12
 indicus, Equus hemionus, 12
 indicus, Equus onager, 12
 indicus, Rhinoceros, 48
 indicus, Tapirus, 39
 indicus, Tapirus (Acrocodia), 39
 indicus zeylanicus, Elephas, 83
 inermis, Rhinoceros, 49
 invadens, Bubalis major, 100
 irroratus, Hyrax, 69
 irroratus *var.* leucogaster, Hyrax, 65
 isabellinus, Hippotigris, 20
- jacksoni, Procavia, 68
 jallæ, Equus, 30
 jallæ, Equus burchelli, 30
 jallæ, Equus chapmani, 30
 jallæ, Equus quagga, 30
 javanicus, Rhinoceros, 49
 jayakari, Procavia syriaca, 64
 jimela, Damaliscus korrigum, 104
 johnstoni, Procavia, 61
- kamerunensis, Procavia, 75
 Keitloa, 52, 54
 keitloa, Atelodus, 54
 Keitloa bicornis, 54
 keitloa (*or* ketloa), Rhinoceros, 54
 keitloa, Rhinaster, 54
 kempi, Procavia brucei, 72
 kenix, Bubalis lelwel, 102
 kerstingi, Procavia, 62
 khur, Equus, 12
 Kiang, 9
 kiang, Asinus, 9
 kiang, Equus, 8
 kiang, Equus hemionus, 9
 Klip-Das, 59
 knochenbaueri, Elephas africanus, 88
- knochenbaueri, Elephas africanus, 88
 kob, Kobus (Adenota) kob, 111
 kob riparia, Adenota, 111
 Kob riparius, Kobus, 111
 koba lyra, Damaliscus, 103
 Kobus, 110
 Kobus (Adenota) kob, 111
 Kobus defassa, 110
 Kobus kob riparius, 111
 korrigum, Damaliscus, 103
 korrigum eurus, Damaliscus, 105
 korrigum jimela, Damaliscus, 104
 korrigum lyra, Damaliscus, 103
 korrigum purpureus, Damaliscus, 104
 korrigum topi, Damaliscus, 104
 korrigum ugandæ, Damaliscus, 104
 kozlovi, Ovis, 97
 kozlovi, Ovis ammon, 97
 Kulan, 11, 12
 kyang, Asinus, 9
- laikipia, Procavia crawshayi, 79
 lasiotis, Ceratorhinus, 51
 lasiotis, Dicerorhinus sumatrensis, 51
 lasiotis, Rhinoceros, 51
 lasiotis, Rhinoceros, *vel* Ceratorhinus, 51
 lasiotis, Rhinoceros, sumatrensis, 51
 latastei, Procavia, 69
 latrator, Procavia emini, 76
 laurillardi, Tapirus, 43
 laurillardi, Tapirus americanus, 43
 laurillardi, Tapirus terrestris, 43
 lelwel, Bubalis, 101
 lelwel kenix, Bubalis, 102
 lelwel modestus, Bubalis, 102
 leucogaster, Hyrax irroratus, 65
 leucogenys, Tapirus, 44
 lopesi, Procavia, 67
 lorenzi, Connochaetes albojubatus, 106
 lorenzi, Equus quagga, 21
 Loxo(-disco-)don, 85
 Loxodon, 85
 Loxodon africanus, 84
 (Loxodon) africanus, Elephas, 84
 Loxodon cyclotis, 87
 Loxodonta, 85
 Loxodonta africana, 85

- (Loxodonta) africanus, Elephas, 85, 86
 Loxodonte, 85
 Ludolphozecora, 15
 (Ludolphozecora) grevyi, Equus, 18
 lutea, Cephalophus grimmia, 108
 luteus, Cephalophus grimmii, 108
 luzarchei, Bubalis, 102
 lydekkeri, Ovis borealis, 99
 lyra, Damaliscus koba, 103
 lyra, Damaliscus korrigum, 103

 mackinderi, Procavia, 67
 mackinderi, Procavia mackinderi, 67
 mackinderi zelotes, Procavia, 67
 maculata, Procavia brucei, 71
 major, Bubalis, 100
 major invadens, Bubalis, 100
 major matschiei, Bubalis, 100
 Malay Tapir, 40
 malayanus, Tapir, 40
 malayanus, Tapirus, 40
 manningi, Procavia brucei, 72
 maria, Equus burchelli, 27
 maria, Equus chapmani, 27
 maria, Equus quagga, 27
 marlothi, Procavia capensis, 60
 marmota, Procavia (Dendrohyrax), 78
 massaicus, Bubalus, 93
 matschiei, Bubalis major, 100
 matschiei, Procavia, 68
 maximus, Elephas, 81
 maximus, Elephas maximus, 82
 maximus hirsutus, Elephas, 84
 maximus sumatranus, Elephas, 83
 maximus zeylanicus, Elephas, 83
 mearnsi, Connochates taurinus, 106
 mearnsi, Gorgon albojubatus, 106
 Megacephalon, 15, 18
 Megacephalon grevyi, 18
 melanorheus, Cephalophus (Guevei), 107
 melanorheus æquatorialis (bakeri), Cephalophus, 107
 melanorheus schultzei, Cephalophus, 107
 mexianæ, Tapirus americanus, 43
 mexianæ, Tapirus terrestris, 43
 middendorfi, Ovis, 99
 minor, Procavia abessinica, 66
 minor, Procavia habessinica, 66
 modestus, Bubalis lelwel, 102
 montana, Ourebia, 109
 montana, Ourebia montana, 109
 montanus, Equus, 21, 35
 mossambicus, Hyrax, 69
 muansæ, Equus, 30
 muansæ, Equus quagga, 30
 muansæ, Hippotigris, 30
 muenzeri, Procavia, 74
 münzeri, Procavia (Heterohyrax), 74
 musimon, Ovis, 97
 musimon corsico-sardinensis, Ovis, 97
 musimon occidento-sardinensis, Ovis, 97

 (Nanger) soemmerringi, Gazella, 111
 nasalis, Rhinoceros, 49
 Neotragus, 110
 Neotragus pygmæus, 110
 neumanni, Dendrohyrax, 77
 neumanni, Procavia (Dendrohyrax), 77
 niger, Ceratorhinus, 50
 niger, Rhinoceros, 54
 niger, Rhinoceros sumatrensis, 50
 nigricans, Hyrax, 61
 nigricans, Procavia, 61
 nigrimontana, Ovis ammon, 98
 nigrimontana, Ovis poloi, 98
 nubianus somalicus, Equus, 38
 nuni, Bos caffer, 97

 occidento-sardinensis, Ovis musimon, 97
 Onager, 12, 14
 onager, Asinus, 12
 onager castaneus, Equus, 13
 onager, Equus, 12
 onager, Equus (Asinus), 12
 onager hemippus, Equus, 14
 onager indicus, Equus, 12
 onager onager, Equus, 14
 onager typicus, Equus, 14
 onager var. typicus, Equus, 14
 Opsiceros, 51
 Opsiceros bicornis, 54
 Opsiceros simus, 56
 orientalis, Cephalophus castaneus, 106
 orientalis, Cephalophus dorsalis, 106
 orleansi, Elephas africanus, 90
 Orthagoceros, 99, 112

- Orthægoceros*, 99, 112
oswelli, *Atelodus*, 56
oswellii, *Ceratotherium*, 56
oswellii, *Rhinaster*, 56
oswellii, *Rhinoceros*, 56
Ourebia, 109
Ourebia montana, 109
Ourebia montana montana, 109
Ovis, 97
Ovis ammon, 97
Ovis ammon collium, 98
Ovis ammon kozlovi, 97
Ovis ammon nigrimontana, 98
Ovis ammon severtzovi, 98
Ovis borealis lydekkeri, 99
Ovis canadensis, 99
Ovis canadensis borealis, 99
Ovis collium, 98
Ovis kozlovi, 97
Ovis middendorfi, 99
Ovis musimon, 97
Ovis musimon corsico-sardinensis, 97
Ovis musimon occidento-sardinensis, 97
Ovis poli adametzi, 99
Ovis poloi collium, 98
Ovis poloi nigrimontana, 98
Ovis severtzovi, 98
oweni, *Procavia*, 67
oxyotis, *Elephas africanus*, 89

pallida, *Procavia*, 66
pallidior, *Cephalophus grimmii*, 107
pallidior, *Sylvicapra grimmia*, 107
paucistriatus, *Equus burchelli*, 22
peeli, *Elephas africanus*, 88
penricei, *Equus*, 36
penricei, *Equus zebra*, 36
penricei, *Hippotigris*, 36
pinchacus, *Tapirus*, 44
pinchaque, *Tapir*, 44
pinchaque, *Tapirus*, 44
pococki, *Equus burchelli*, 23
pococki, *Equus quagga*, 23
poli adametzi, *Ovis*, 99
poloi collium, *Ovis*, 98
poloi nigrimontana, *Ovis*, 98
polyodon, *Asinus*, 9
princeps, *Procavia brucei*, 73
Procavia, 58
Procavia abessinica minor, 66
Procavia abyssinica, 65
Procavia abyssinica typica, 66
Procavia adametzi adametzi, 78

Procavia adametzi zenkeri, 79
Procavia alpini, 62
Procavia arborea, 77
Procavia bamendæ, 75
Procavia bettoni, 78
Procavia bounhioli, 74
Procavia brucei, 69
Procavia brucei borana, 70
Procavia brucei brucei, 69
Procavia brucei granti, 71
Procavia brucei hindei, 70
Procavia brucei kempi, 72
Procavia brucei maculata, 71
Procavia brucei manningi, 72
Procavia brucei princeps, 73
Procavia brucei ruddi, 71
Procavia brucei somalica, 70
Procavia brucei thomasi, 72
Procavia brucei typica, 69
Procavia burtoni, 64
Procavia butleri, 74
Procavia capensis, 58
Procavia capensis capensis, 60
Procavia capensis marlothi, 60
Procavia capensis reuningi, 60
Procavia capensis schultzei, 61
Procavia capensis waterbergensis, 61
Procavia capensis windhuki, 60
Procavia crawshayi, 79
Procavia crawshayi crawshayi, 79
Procavia crawshayi laikipia, 79
Procavia dæmon, 68
Procavia (Dendrohyrax) adametzi, 78
Procavia (Dendrohyrax) adametzi zenkeri, 79
Procavia (Dendrohyrax) adolfi-friederici, 79
Procavia (Dendrohyrax) arborea, 76
Procavia (Dendrohyrax) aschantiensis, 78
Procavia (Dendrohyrax) bettoni, 78
Procavia (Dendrohyrax) crawshayi, 79
Procavia (Dendrohyrax) dorsalis, 77
Procavia (Dendrohyrax) emini, 76
Procavia (Dendrohyrax) marmota, 78
Procavia (Dendrohyrax) neumannii, 77
Procavia (Dendrohyrax) scheelei, 75

- Procavia* (*Dendrohyrax*) *scheffleri*, 80
Procavia (*Dendrohyrax*) *stuhlmanni*, 77
Procavia (*Dendrohyrax*) *terricola*, 78
Procavia (*Dendrohyrax*) *tessmanni*, 79
Procavia (*Dendrohyrax*) *valida*, 75
Procavia dorsalis, 77
Procavia emini, 76
Procavia emini emini, 76
Procavia emini latrator, 76
Procavia erlangeri, 62
Procavia ferruginea, 66
Procavia frommi, 74
Procavia goslingi, 62
Procavia grayi, 77
Procavia habessinica, 65
Procavia habessinica habessinica, 66
Procavia habessinica minor, 66
Procavia (*Heterohyrax*) *frommi*, 74
Procavia (*Heterohyrax*) *münzeri*, 74
Procavia (*Heterohyrax*) *schubotzi*, 74
Procavia jacksoni, 68
Procavia johnstoni, 61
Procavia kamerunensis, 75
Procavia kerstingi, 62
Procavia latastei, 69
Procavia lopesi, 67
Procavia mackinderi, 67
Procavia mackinderi mackinderi, 67
Procavia mackinderi zelotes, 67
Procavia matschiei, 68
Procavia muenzeri, 74
Procavia nigricans, 61
Procavia oweni, 67
Procavia pallida, 66
Procavia pumila, 73
Procavia pumila pumila, 73
Procavia pumila rudolfi, 73
Procavia ruficeps, 64
Procavia ruwenzorii, 66
Procavia scheelei, 75
Procavia schubotzi, 74
Procavia scioana, 62
Procavia sharica, 65
Procavia shoana, 62
Procavia slatini, 74
Procavia syriaca, 63
Procavia syriaca jayakari, 64
Procavia syriaca syriaca, 64
Procavia syriaca typica, 64
Procavia thomasi, 72
Procavia valida, 75
Procavia volkmanni, 69
Procavia welwitschii, 68
przewalskii, *Equus caballus*, 7
pumila, *Procavia*, 73
pumila, *Procavia pumila*, 73
pumila rudolfi, *Procavia*, 73
pumilio, *Elephas africanus*, 87
purpurescens, *Damaliscus korrigum*, 104
pygmaeus, *Neotragus*, 110
quagga, *Equus*, 19
quaccha, *Equus*, 19
Quacha, 20, 21
quacha, *Equus*, 19
quacha, *Hippotigris*, 19
Quagga, 20, 21
quagga annectens, *Equus*, 27
quagga antiquorum, *Equus*, 22
quagga, *Asinus*, 20
quagga boehmi, *Equus*, 26
quagga burchelli, *Equus*, 21, 22
quagga chapmani, *Equus*, 23, 24
quagga crawshaii, *Equus*, 27
quagga crawshayi, *Equus*, 27
quagga cuninghamei, *Equus*, 28
quagga danielli, *Equus*, 21
quagga, *Equus*, 19
quagga, *Equus* (*Hippotigris*), 19, 20
quagga granti, *Equus*, 30
quagga greyi, *Equus*, 21
quagga, *Hippotigris*, 20
quagga jallæ, *Equus*, 30
quagga lorenzi, *Equus*, 21
quagga mariæ, *Equus*, 27
quagga muansæ, *Equus*, 30
quagga pocoeki, *Equus*, 23
quagga quagga, *Equus*, 20, 21
quagga selousi, *Equus*, 25
quagga transvaalensis, *Equus*, 25
quagga trouessarti, *Equus*, 21
quagga wahlbergi, *Equus*, 24
quagga zambesiensis, *Equus*, 26
Quaha, 20, 21
Redunca, 110
redunca cottoni, *Redunca*, 110
Redunca redunca, 110
redunca, *Redunca*, 110
Redunca redunca cottoni, 110
reuningi, *Procavia capensis*, 60

- Rhinaster, 52
 Rhinaster bicornis, 54
 Rhinaster keitloa, 54
 Rhinaster oswellii, 56
 Rhinaster simus, 56
 Rhinoceros, 46
 Rhinoceros africanus, 53
 Rhinoceros asiaticus, 48
 Rhinoceros bicornis, 52
 Rhinoceros bicornis bicornis, 54
 Rhinoceros bicornis capensis, 53
 Rhinoceros bicornis cucullatus, 55
 Rhinoceros bicornis holmwoodi, 54
 Rhinoceros bicornis somaliensis, 55
 Rhinoceros bicornis sumatrensis, 50
 Rhinoceros burchellii, 56
 Rhinoceros camperi, 54
 Rhinoceros camus, 56
 Rhinoceros, *vel* Ceratorhinus (crossi) lasiotis, 51
 Rhinoceros (Ceratorhinus) sumatrensis, 50
 Rhinoceros, *vel* Ceratorhinus, sumatrensis, 50
 Rhinoceros crosseii, 51
 Rhinoceros cucullatus, 55
 Rhinoceros (Dicerorhinus) sumatrensis, 49
 Rhinoceros (Dicerorhinus) bicornis, 52, 54
 Rhinoceros (Dicerorhinus) simus, 55, 56
 Rhinoceros (Eurhinoceros) unicornis, 48
 Rhinoceros floweri, 49
 Rhinoceros holmwoodi, 54
 Rhinoceros indicus, 48
 Rhinoceros inermis, 49
 Rhinoceros javanicus, 49
 Rhinoceros keitloa (*or* ketloa), 54
 Rhinoceros lasiotis, 51
 Rhinoceros nasalis, 49
 Rhinoceros niger, 54
 Rhinoceros oswellii, 56
 Rhinoceros simus cottoni, 56
 Rhinoceros simus simus, 56
 Rhinoceros sondaicus, 3, 48, 50
 Rhinoceros stenocephalus, 48
 Rhinoceros sumatranus, 50
 Rhinoceros sumatrensis, 49
 Rhinoceros sumatrensis blythi, 50
 Rhinoceros sumatrensis lasiotis, 51
 Rhinoceros sumatrensis niger, 50
 Rhinoceros sumatrensis sumatrensis, 50
 Rhinoceros sumatrensis typicus, 50
 Rhinoceros unicornis, 47
 Rhinoceros simus, 55
 Rhinocærus, 39
 Rhinocærus sumatranus, 40
 riparius, Kobus kob, 111
 rothschildi, Elephas africanus, 91
 Roulin's Tapir, 44
 roulini, Tapirus, 44
 ruddi, Procavia brucei, 71
 rudolfi, Procavia pumila, 73
 ruficeps, Hyrax, 64
 ruficeps, Procavia, 64
 ruwenzorii, Procavia, 66
 sabakiensis, Bubalis cokei, 101
 scheelei, Dendrohyrax, 75
 scheelei, Procavia 75 -
 scheelei, Procavia (Dendrohyrax), 75
 scheffleri, Procavia (Dendrohyrax), 80
 schillingsi, Bubalis, 101
 schillingsi, Bubalis cokei, 101
 schubotzi, Procavia, 74
 schubotzi, Procavia (Heterohy-rax), 74
 schultzei, Cephalophus cærus, 107
 schultzei, Cephalophus melano-rheus, 107
 schultzei, Procavia capensis, 61
 schulzi, Connochætes albojubatus, 106
 scioana, Procavia, 62
 scioanus, Hyrax, 62
 selousi, Elephas africanus, 87
 selousi, Equus burchelli, 25
 selousi, Equus chapmani, 25
 selousi, Equus quagga, 25
 selousi, Equus tigrinus, 25
 semicircularis, Hyrax, 59
 severtzovi, Ovis, 98
 severtzovi, Ovis ammon, 98
 sharica, Procavia, 65
 shoana, Procavia, 62
 simum, Ceratotherium, 56
 simum cottoni, Ceratotherium, 58
 simus, Atelodus, 56
 simus, Coelodonta, 56
 simus cottoni, Dicerorhinus, 58
 simus cottoni, Rhinoceros, 56

- simus, *Diceros*, 56
 simus, *Opsiceros*, 56
 simus, *Rhinaster*, 56
 simus, *Rhinoceros*, 55
 simus, *Rhinoceros* (*Diceros*), 55, 56
 simus, *Rhinoceros simus*, 56
 sinaiticus, *Hyrax*, 63
 slatini, *Procavia*, 74
 soemmerringi, *Gazella* (*Nanger*), 111
 soemmerringi, *Gazella soemmerringi*, 111
 somalica, *Procavia brucei*, 70
 somalicus, *Asinus*, 39
 somalicus, *Equus*, 38
 somalicus, *Equus asinus*, 38
 somalicus, *Equus nubianus*, 38
 somaliensis, *Asinus*, 38
 somaliensis, *Diceros bicornis*, 55
 somaliensis, *Equus*, 38
 somaliensis, *Equus asinus*, 38
 somaliensis, *Rhinoceros bicornis*, 55
 sondaicus, *Rhinoceros*, 3, 48, 50
 spegazzinii, *Tapirus*, 43
 spegazzinii, *Tapirus terrestris*, 43
 Square-mouthed *Rhinoceros*, 56
 stampflii, *Hyrax*, 77
 stenocephalus, *Rhinoceros*, 48
 stuhlmanni, *Dendrohyrax*, 77
 stuhlmanni, *Procavia* (*Dendrohyrax*), 77
 suillus, *Tapirus*, 41
 sumatranus, *Ceratorhinus*, 50
 sumatranus, *Elephas*, 83
 sumatranus, *Elephas maximus*, 83
 sumatranus, *Rhinoceros*, 50
 sumatranus, *Rhinocærus*, 40
 sumatranus, *Tapirus*, 40
 sumatrensis blythi, *Rhinoceros*, 50
 sumatrensis, *Ceratorhinus*, 50
 sumatrensis, *Dicerorhinus*, 50
 sumatrensis lasiotis, *Dicerorhinus*, 51
 sumatrensis lasiotis, *Rhinoceros*, 51
 sumatrensis niger, *Rhinoceros*, 50
 sumatrensis, *Rhinoceros*, 49
 sumatrensis, *Rhinoceros bicornis*, 50
 sumatrensis, *Rhinoceros* (*Ceratorhinus*), 50
 sumatrensis, *Rhinoceros*, *vel* *Ceratorhinus*, 50
 sumatrensis, *Rhinoceros* (*Dicerorhinus*), 49
 sumatrensis, *Rhinoceros sumatrensis*, 50
 sumatrensis typicus, *Rhinoceros*, 50
 sylvestris, *Hyrax*, 77
 (*Sylvicapra*), *grimmii*, *Cephalophus*, 107
Sylvicapra grimmia deserti, 108
Sylvicapra grimmia pallidior, 107
 syriaca jayakari, *Procavia*, 64
 syriaca, *Procavia*, 63
 syriaca, *Procavia syriaca*, 64
 syriaca typica, *Procavia*, 64
 syriacus, *Hyrax*, 63
 tæniopus, *Asinus*, 38
 tæniopus, *Asinus vulgaris*, 38
 tæniopus, *Equus*, 38
 tæniopus, *Equus asinus*, 38
 tanæ, *Bubalus caffer*, 93
 tanæ, *Bubalis cokei*, 101
 Tapir, 39, 42
 Tapir americanus, 41
 Tapir anta, 41
 tapir, *Hydrochærus*, 41
 Tapir malayanus, 40
 Tapir pinchaque, 44
 Tapirella, 44
 Tapirella bairdi, 45
 (Tapirella) bairdi, *Tapirus*, 45
 Tapirella dowi, 46
 (Tapirella) dowi, *Tapirus*, 46
 Tapirus, 39, 41
 Tapirus (*Acrocodia*) indicus, 39
 Tapirus americanus, 41, 45
 Tapirus americanus laurillardii, 43
 Tapirus americanus *var. mexicanæ*, 43
 Tapirus bairdi, 45
 Tapirus bicolor, 40
 Tapirus dowi, 46
 Tapirus ecuadorensis, 41
 Tapirus (*Elasmognathus*) bairdi, 45
 Tapirus enigmaticus, 44
 Tapirus indicus, 39
 Tapirus laurillardii, 43
 Tapirus leucogenys, 44
 Tapirus malayanus, 40
 Tapirus pinchacus, 44
 Tapirus pinchaque, 44
 Tapirus roulini, 44
 Tapirus spegazzinii, 43
 Tapirus suillus, 41

- Tapirus sumatranus*, 40
Tapirus (Tapirella) bairdi, 45
Tapirus (Tapirella) dowi, 46
Tapirus tapirus, 41
tapirus, *Tapirus*, 41
Tapirus terrestris, 41
Tapirus terrestris laurillardi, 43
Tapirus terrestris mexianæ, 43
Tapirus terrestris spegazzinii, 43
Tapirus terrestris terrestris, 42
Tapirus villosus, 44
Tapyra, 39
taurinus, *Connorchætes*, 105
taurinus cooksoni, *Connorchætes*, 105
taurinus mearnsi, *Connorchætes*, 106
terrestris, *Hippopotamus*, 41
terrestris laurillardi, *Tapirus*, 43
terrestris mexianæ, *Tapirus*, 43
terrestris spegazzinii, *Tapirus*, 43
terrestris, *Tapirus*, 41
terrestris, *Tapirus terrestris*, 42
terricola, *Dendrohyrax*, 78
terricola, *Procavia (Dendrohyrax)*, 78
tessmanni, *Procavia (Dendrohyrax)*, 79
thomasi, *Procavia*, 72
thomasi, *Procavia brucei*, 72
tigrinus, *Equus*, 27
tigrinus selousi, *Equus*, 25
topi, *Damaliscus korrigum*, 104
toxotis, *Elephas africanus*, 86
transvaalensis, *Equus burchelli*, 25
transvaalensis, *Equus chapmani*, 25
transvaalensis, *Equus quagga*, 25
transvaalensis, *Hippotigris*, 25
trouessarti, *Equus quagga*, 21
typica, *Procavia abyssinica*, 66
typica, *Procavia brucei*, 69
typica, *Procavia syriaca*, 64
typicus, *Elephas africanus*, 86
typicus, *Equus burchelli*, 22
typicus, *Equus caballus*, 6
typicus, *Equus hemionus*, 11
typicus, *Equus onager*, 14
typicus, *Rhinoceros sumatrensis*, 50
ugandæ, *Damaliscus korrigum*, 104
unicornis, *Rhinoceros*, 47
unicornis, *Rhinoceros (Eurhinoceros)*, 48
urundicus, *Bubalus*, 94
valida, *Procavia*, 75
valida, *Procavia (Dendrohyrax)*, 75
validus, *Dendrohyrax*, 75
villosus, *Tapirus*, 44
volkmanni, *Procavia*, 69
vulgaris, *Asinus*, 37
vulgaris var. tæniopus, *Asinus*, 38
wahlbergi, *Equus burchelli*, 24
wahlbergi, *Equus chapmani*, 24
wahlbergi, *Equus quagga*, 24
wahlbergi, *Hippotigris*, 24
Ward's Zebra, 32
wardi, *Equus*, 32
waterbergensis, *Procavia capensis*, 61
welwitschii, *Hyrax*, 68
welwitschii, *Procavia*, 68
wembaerensis, *Bubalis cokei*, 101
White-bearded Gnu, 106
White Rhinaster, 56
White Rhinoceros, 56
windhuki, *Procavia capensis*, 60
wintgensii, *Bubalus*, 93
zambesiensis, *Equus quagga*, 26
zambeziensis, *Equus burchelli*, 26
zambeziensis, *Equus chapmani*, 26
Zebra, 35
zebra, *Asinus*, 35
zebra, *Equus (Asinus)*, 35
zebra, *Equus (Hippotigris)*, 34
zebra, *Equus zebra*, 35
zebra frederici, *Equus*, 35
zebra hartmannæ, *Equus*, 36
zebra, *Hippotigris*, 35
zebra penricei, *Equus*, 36
zebroides, *Equus*, 21
zelotes, *Procavia mackinderi*, 67
zenkeri, *Procavia adametzi*, 79
zenkeri, *Procavia (Dendrohyrax) adametzi*, 79
zeylanicus, *Elephas indicus*, 83
zeylanicus, *Elephas maximus*, 83
Zwaart Rhinaster, 54

GENERAL INDEX.

(VOLS. I.-V.)

- | | |
|--|--|
| abessinica minor, Procavia, v 66 | Adenonotus tajacu, iv 379 |
| abu-harab, Leptoceros, iii 68 | Adenota, ii 253 |
| Abyssinian Ibex, i 156 | " kob, ii 253, 264 |
| abyssinica, Procavia, v 65 | " " adolphi-friderici, ii 259 |
| " Sylvicapra, ii 117 | " " aluræ, ii 260 |
| abyssinicus, Cephalophus grimmi, ii 117 | " " bahr-keetæ, ii 259 |
| " Hippopotamus, iv 387 | " " kob, ii 256 |
| " Hyrax, v 62, 65 | " " neumanni, ii 262 |
| " Strepsiceros, iii 202 | " " notata, ii 263 |
| acapulcensis, Odocoileus virginianus, iv 167 | " " riparia, v 111 |
| aceratos, Oreotragus oreotragus, ii 130 | " " thomasi, ii 264 |
| aceros, Sikaïllus, iv 107 | " " ubangiensis, ii 259 |
| Achlis, iv 238 | " [kob] vaughani, ii 265 |
| Acrocodia, v 39 | " koba, ii 264 |
| " indica, v 40 | " kul, ii 267 |
| Acronotus, ii 3 | " leche, ii 246 |
| " bubalis, ii 5, 8 | " lechee, ii 247, 266 |
| " caama, ii 25 | " leucotis, ii 266 |
| " lelwel, ii 19 | " megaceros, ii 251 |
| " lunatus, ii 87 | " nigroscapulata, ii 265 |
| acuticornis, Cerophorus (Cervicapra), ii 147 | " pousarguesi, ii 260 |
| " Panolia, iv 100 | " sing-sing, ii 242 |
| adamauxæ, Bos caffer, v 95 | " thomasi, ii 264 |
| adametzi, Bos caffer, v 96 | " vardoni, ii 268 |
| " Ovis poli, v 99 | " wuil, ii 267 |
| " Procavia adametzi, v 78 | adenota, Antilope, ii 253 |
| adansoni, Kobus, ii 253 | adolphi, Kobus kob, ii 259 |
| Addax, iii 146 | adolphi-friderici, Adenota kob, ii 259 |
| " nasomaculatus, iii 146, 147 | " " Kobus, ii 235 |
| " " addax, iii 150 | adrob, Cervicapra, ii 214 |
| " " nasomaculatus, iii 149 | ægagrus, Capra hircus, i 157 |
| addax, Addax nasomaculatus, iii 150 | Ægoceros, i 129 |
| Addra, iii 107 | " ægagrus, i 157 |
| addra, Antilope (Dama), iii 107 | " ammon, i 133 |
| Adenonotus, iv 374 | " argali, i 93 |
| " labiatus, iv 376 | " bakeri, iii 138 |
| | " beden, i 154 |
| | " (Capra) falconeri, i 161 |
| | " caucasica, i 131 |
| | " falconeri, i 162 |
| | " ibex, i 141, 142 |
| | " koba, iii 140 |

- Ægoceros leucophæus*, iii 134,
 137
 „ *musimon*, i 75
 „ *pallasi*, i 131
 „ *pictus*, i 161
 „ *pyrenaica*, i 138
 „ *skyn*, i 149
 „ *tragelaphus*, i 123
æliani, *Phacochærus æthiopicus*,
 iv 371
Æpyceras, iii 5
 „ *melampus*, iii 6
 „ *petersi*, iii 12
Æpyceros, iii 5
 „ *melampus*, iii 5, 6
 „ „ *holubi*, iii 9
 „ „ *johnstoni*, iii 9
 „ „ *katangæ*, iii 10
 „ „ *melampus*, iii 8
 „ „ *petersi*, iii 12
 „ „ *rendilis*, iii 10
 „ „ *suara*, iii 10
 „ „ *typicus*, iii 8
 „ *petersi*, iii 12
 „ *suara*, iii 10
æquatoria, *Ourebia montana*, ii
 140
æquatorialis, *Cephalophus me-*
lanorheus, ii 98
æquinoctialis, *Bos caffer*, i 58,
 v 94
 „ *Cephalophus*, ii 98
æquinoxialis, *Bos*, i 58
æthiopica, *Camelopardalis giraffa*,
 iii 244
 „ *Capra*, iii 134
æthiopicus, *Camelopardalis*, iii
 241
 „ *Phacochærus*, iv 366
affinis, *Cervus*, iv 141, 142, 185
 „ „ *wallichi*, iv 142
 „ *Hydropotes*, iv 257
 „ *Sus*, iv 318
 „ *Tragulus kanchil*, iv 286
African Buffalo, i 51
 „ *Elephant*, v 85
africana, *Loxodonta*, v 85
africanus, *Asinus*, v 38
 „ *Choiropotamus*, iv 349
 „ *Elephas*, v 85
 „ *Equus asinus*, v 37, 38
 „ *Loxodon*, v 86
 „ *Phacochærus æthiopi-*
cus, iv 373
 „ *Rhinoceros*, v 53
 „ *Sus*, iv 350, 373
ahænobarbus, *Sus barbatus*, iv 342
Ahu, iii 43
 „ *Persian*, iv 226
ahu, *Cervus*, iv 226
Aiel, iii 58
Aigoceros barbata, iii 134
 „ *ellipsiprymnus*, ii 227
 „ *equinus*, iii 134
Aigoceros, iii 131
 „ *ellipsiprymnus*, ii 226
 „ *harrisi*, iii 141
 „ *leucophæus*, iii 133
 „ *niger*, iii 141
akeleyi, *Neotragus moschatus*, ii
 161
alaiana, *Capra sibirica*, i 148
albertensis, *Elephas africanus*, v
 91
 „ *Kobus defassa*, ii 238
albicornis, *Cervus*, iv 71
albicus, *Cervus*, iv 124, 221
 „ „ (*Capreolus*) *capre-*
olus, iv 221
albifrons, *Cervus elaphus*, iv 124
 „ *Damaliscus*, ii 35
 „ *Potamochoerus porcus*,
 iv 361
albipes, *Antilope*, iii 225
 „ *Cervus*, iv 24
 „ *Prox*, iv 21
albirostris, *Cervus*, iv 149
 „ *Sus*, iv 375
albojubatus, *Connorchætes tauri-*
nus, ii 58
albonotata, *Gazella*, iii 82
albonotatus, *Tragelaphus spekei*,
 iii 189
albo-virgatus, *Tragelaphus*, iii 203
albovittatus, *Tragelaphus*, iii 203
albus, *Cervus capreolus*, iv 219
 „ „ *elaphus*, iv 124
 „ *Dama platyceros*, iv 43
Alce, iv 229
 „ *alces*, iv 230
 „ *americanus*, iv 234
alce, *Cervus*, iv 230
Alcelaphus, ii 3, iv 229
 „ *albifrons*, ii 35
 „ *alce*, iv 230
 „ *bubale*, ii 5
 „ *bubalinus*, ii 5
 „ *bubalis*, ii 5
 „ „ *var.* *tunisi-*
anus, ii 5
 „ *caama*, ii 25
 „ *cokei*, ii 13

- Alcelaphus (Damalis) hunteri, ii 46
 „ hunteri, ii 46
 „ lichtensteini, ii 29
 „ lunatus, ii 37
 „ pygargus, ii 34
 „ senegalensis, ii 39
 „ tora, ii 8
 Alces, iv 228
 „ alces, iv 230
 „ „ alces, iv 232
 „ „ americanus, iv 234
 „ „ bedfordiæ, iv 234
 „ „ columbæ, iv 236
 „ „ gigas, iv 237
 „ americanus, iv 234
 „ antiquorum, iv 230
 „ bedfordiæ, iv 234
 „ columbæ, iv 236
 „ europæus, iv 230
 „ gigas, iv 237
 „ jubata, iv 230
 „ lobata, iv 234
 „ „ coronota, iv 231
 „ machlis, iv 230
 „ „ americanus, iv 234
 „ „ bedfordiæ, iv 234
 „ „ gigas, iv 237
 „ „ meridionalis, iv 232
 „ „ typicus, iv 232
 „ „ uralensis, iv 232
 „ „ yakutskensis, iv 234
 „ malehis, iv 230
 „ muswa, iv 234
 „ palmatus, iv 230
 alces, Alces, iv 230
 „ „ alces, iv 232
 „ Cemas, iii 209
 alfredi, Cervus (Rusa), iv 62
 alfurus, Babirusa, iv 345, 346
 algazel, Oryx, iii 126, 127
 „ „ algazel, iii 128
 algazella, Antilope, iii 127
 algoënsis, Redunca isabellina, ii 205
 alleni, Ovis canadensis, i 122
 almasyi, Capra sibirica, i 146
 Alpaca, iv 302
 alpina, Capra, i 141
 Alpine Ibex, i 141
 alpini, Procavia, v 62
 alpinus, Ibex, i 141
 alpomus, Sus aper, iv 318
 altaica, Capra sibirica, i 144
 altaica Gazella gutturosa, iii 39
 „ Ovis argali, i 95
 altaicus, Moschus, iv 5
 altifrons, Cephalophus grimmii, ii 113
 altivallis, Cephalophus grimmii, ii 120
 aluræ, Kobus kob, ii 260
 amboinensis, Sus celebensis, iv 335
 ambrosianus, Ussa, iv 89
 American Antelope, iii 231
 americana, Antilocapra, iii 230
 „ „ americana, iii 232
 „ Antilope (Rupicapra), i 218
 „ Mazama, iv 199, 200
 „ „ americana, iv 200
 americanus, Alces alces, iv 234
 „ Bos, i 37
 „ Cervus dama, iv 155
 „ Moschus, iv 199
 „ Odocoileus americanus, iv 159
 „ Oreamnos, i 218, 219
 „ „ americanus, i 219
 „ Tapirus, v 41, 45
 Ammelaphus, iii 191
 „ imberbis, iii 192
 „ „ australis, iii 195
 Ammodorcas, iii 2
 „ clarkei, iii 3
 Ammon, i 73
 ammon, Ægoceros, i 133
 „ Ovis, i 92, 98, 109, v 97
 „ „ ammon, i 95
 „ severtzovi, Ovis, v 98
 ammonoides, Ovis, i 98
 Ammotragus, i 122
 „ lervia, i 123
 „ „ blainei, i 126
 „ „ lervia, i 124
 „ „ ornata, i 125
 „ „ sahariensis, i 125
 „ pyrenaicus, i 138
 „ tragelaphus, i 123
 amœnus, Cephalophus natalensis, ii 69
 „ Tragulus javanicus, iv 278
 amphibius, Hippopotamus, iv 387

- Amur Goral, i 209
 anatolica, *Ovis orientalis*, i 81
 anchietæ, *Cephalophus melanorheus*, ii 98
 andamanensis, *Sus vittatus*, iv 326
 andersoni, *Sus vittatus*, iv 328
 andicus, *Cervequus*, iv 193
 andreanus, *Cervus*, iv 107
 angasi, *Tragelaphus*, iii 179
 angolensis, *Giraffa camelopardalis*, iii 254
 angulatum, *Tagassu*, iv 383
 angulatus, *Dicotyles angulatus*, iv 383
 " " (*Pecari*), iv 383
 annæ, *Tragulus javanicus*, iv 279
 annamiticus, *Bubalibos*, i 30
 " *Cervus porcinus*, iv 58
 annectens, *Equus*, v 27
 " *Oryx beisa*, iii 125
 annulipes, *Antilope*, ii 253
 Anoa, i 40
 " *depressicornis*, i 48
 " *mindorensis*, i 47
 Anomalocera, iv 193
 " *huamel*, iv 196
 anta, *Tapir*, v 41
 Antelope, *American*, iii 231
 " *Blue*, iii 132
 " *Four-Horned*, iii 222
 " *Harnessed*, iii 154
 " *Roan*, iii 135
 " *Royal*, ii 170
 " *Sable*, iii 142
Antelopus roualeynei, iii 176
 Antidoreas, iii 109
 " *euchore*, iii 110
 " *marsupialis*, iii 109, 111
 " " *centralis*, iii 112
 " " *marsupialis*, iii 111
 Antifer, iv 186
 Antilocapra, iii 230
 " *americana americana*, iii 232
 " " *peninsularis*, iii 234
 " *furcifer*, iii 231
 Antilope, iii 22
 " *acuticornis*, ii 147
 " *addax*, iii 147, 150
 " (*Addax*) *euryceros*, iii 203
 Antilope (*Addax*) *oreas*, iii 210
 " " *scripta*, iii 153
 " " *strepsiceros*, iii 198
 " *adenota*, ii 253
 " (*Aigocerus*) *leucophæus*, iii 133
 " *albifrons*, ii 35, 113
 " *albipes*, iii 225
 " *algazella*, iii 127
 " *americana*, iii 230
 " " *mexicana*, iii 234
 " *annulipes*, ii 253
 " (*Anoa*) *depressicornis*, i 48
 " (*Aplocerus*) *lanigera*, i 218
 " *arabica*, iii 51, 57
 " *arundinaceus*, ii 204
 " *arundinum*, ii 203
 " *aurita*, iii 134
 " *barbata*, iii 134
 " *beatrice*, iii 130
 " *beisa*, iii 122
 " *bennettii*, iii 50
 " *bezoartica*, iii 24, 119, 127
 " *bezoartria*, iii 127
 " *bilineata*, iii 24
 " (*Boselaphus*) *canna*, iii 209
 " " *gnu*, ii 51
 " " *oreas*, iii 209
 " *brevicaudata*, ii 138
 " *bubalina*, i 193
 " *bubalis*, ii 4
 " (*Bubalis*) *leucophæa*, iii 132
 " " *oreas*, iii 209
 " " *oryx*, iii 120, 129
 " " *picta*, iii 226
 " " *tragocamelus*, iii 226
 " *burchelli*, ii 108
 " *buselaphus*, ii 4
 " (*Buselaphus*) *canna*, iii 209
 " " *oreas*, iii 209
 " *caama*, ii 24
 " *campestris*, ii 146
 " *canna*, iii 209
 " *capensis*, ii 51, iii 132
 " " (*for campestris*), ii 147
 " *capreolus*, ii 199
 " (*Caprina*) *crispa*, i 209

- Antilope (Cephalolophus) campbelliæ, ii 116
 „ „ maxwelli, ii 94
 „ „ natalensis, ii 68
 „ „ rufilatus, ii 87
 „ (Cephalolophus) burchelli, ii 107
 „ „ cærulea, ii 100
 „ „ coronatus, ii 115
 „ „ dorsalis, ii 80
 „ „ maxwelli, ii 93
 „ „ melanorheus, ii 96
 „ „ ogilbyi, ii 83
 „ „ perpusilla, ii 101
 „ „ philantomba, ii 93
 „ „ picta, iii 226
 „ „ platous, ii 107
 „ „ platyotus, ii 108
 „ „ ptoox, ii 107
 „ „ sylvicultrix, ii 63
 „ cervicapra, iii 23
 „ chickara, iii 220
 „ chiru, iii 18
 „ chora, iii 202
 „ cinerea, ii 204
 „ cærulescens, ii 204
 „ colus, iii 14
 „ cora, iii 57
 „ corinna, iii 71
 „ crispa, i 200
 „ cuvieri, iii 32, 54
 „ dama, iii 102, 106
 „ (Dama) addra, iii 107
 „ „ nanguer, iii 102
 „ dama, var. occidentalis, iii 104
 „ „ „ orientalis, iii 107
 „ (Damalis) oreas, iii 210
 „ „ picta, iii 226
 „ dammah, iii 129
 „ decula, iii 159
 „ defassa, ii 232
 „ „ var. abyssinica, ii 232
 „ „ „ senegalen-
 „ sis, ii 242
 „ depressicornis, i 48
 „ (Dicranocerus) furcifer, iii 231
 „ dorcass, ii 33, iii 57, 71
 „ „ var. persica, iii 43
- Antilope doria, ii 89
 „ dorsata, iii 110
 „ duvauceli, i 203
 „ (Egocerus) leucophæus, iii 132
 „ eleotragus, ii 203, 221
 „ ellipsiprymnus, ii 226
 „ elypsiprymnus, ii 227
 „ ensicornis, iii 127
 „ „ var. asiatica, iii 130
 „ „ „ nubica, iii 127
 „ „ „ senegalensis, iii 127
 „ equina, iii 134
 „ euchore, iii 109
 „ euryceros, iii 203
 „ forfex, ii 253
 „ frederici, ii 94
 „ fulvo-rufescens, ii 147
 „ fulvorufula, ii 220
 „ furcifer, iii 231
 „ gazella, i 157, iii 55, 126
 „ (Gazella) capreolus, ii 199
 „ „ grimmia, ii 114
 „ „ oreotragus, ii 124
 „ „ pygmæa, ii 169
 „ „ saiga, iii 14
 „ „ strepsiceros, iii 196
 „ „ subgutturosa, iii 43
 „ „ sylvatica, iii 177
 „ gibbosa, iii 147
 „ glauca, iii 133
 „ gnou, ii 50
 „ gnu, ii 50
 „ goral, i 203
 „ gorgon, ii 54
 „ grimmia, ii 86, 114
 „ (Grimmia) grimmia, ii 86
 „ „ mergens, ii 108
 „ „ quadricornis, iii 221
 „ „ „ sylvicultrix, ii 63
 „ grisea, ii 33, 156
 „ gutturosa, iii 32, 34
 „ (Haplocerus) lanigera, i 218
 „ harnieri, ii 234
 „ hastata, ii 135
 „ hazenna, iii 51

- Antilope hemprichiana, ii 174
 „ hemprichii, ii 174
 „ hodgsoni, iii 18
 „ ibex, ii 147
 „ interscapularis, i 188
 „ isabellina, ii 204
 „ isidis, iii 75
 „ kemas, iii 18
 „ kevella, iii 61, 70
 „ klippspringer, ii 123
 „ kob, ii 253
 „ koba, ii 241
 „ korrigum, ii 39
 „ lævipes, iii 64
 „ lalandia, ii 220
 „ lalandii, ii 221
 „ lanata, ii 200
 „ landiana, ii 220
 „ lanigera, i 218
 „ leptoceros, iii 64, 67
 „ (Leptoceros) leptoceros,
 iii 68
 „ lervia, i 123
 „ leucophæa, iii 132, 153
 „ leucopus, iii 225
 „ leucoryx, iii 127, 129
 „ leucotis, ii 266
 „ lichtensteini, ii 29
 „ lunata, ii 37
 „ maculata, ii 33
 „ madoka, ii 174
 „ madoqua, ii 117, 175
 „ marsupialis, iii 109
 „ maxwellii, ii 94
 „ melampus, iii 5
 „ melanotis, ii 155
 „ melanura, ii 133, iii 81
 „ mergens, ii 107
 „ mhoks, iii 105
 „ mhor, iii 104
 „ „ var. β , iii 102
 „ minuta, ii 101
 „ montana, ii 138
 „ monticola, ii 100
 „ moschata, ii 160
 „ mytilopes, iii 147
 „ (Nemorhedus) cauda-
 tus, i 208
 „ „ cinereus, i 206
 „ „ edwardsii, i 190
 „ „ griseus, i 206
 „ (Nagor) redunca, ii 211
 „ naso-maculata, iii 146
 „ (Nemorhedus) goral, i
 204
 „ „ sumatrensis, i 188
- Antilope (Nemorhedus) thar, i
 193
 „ (Neotragus) madoka, ii
 174
 „ „ pygmæa, ii 169
 „ „ saltiana, ii 174
 „ nictitans, ii 107
 „ nigra, iii 141
 „ ocularis, ii 113
 „ (Elegocerus) ellipsiprym-
 nus, ii 226
 „ ogilbyi, ii 83
 „ oleotragus, ii 204
 „ oreas, iii 208
 „ (Oreas) canna, iii 209
 „ „ oreas, iii 209
 „ oreotragus, ii 123, 204
 „ orientalis, iii 35
 „ oryx, iii 119, 208
 „ (Oryx) bezoastica, iii 126
 „ ourebi, ii 133
 „ (Ourebia) oreotragus, ii
 124
 „ „ scoparia, ii 133
 „ pallah, iii 6
 „ pallida, ii 157
 „ palmata, iii 231
 „ pasan, iii 120
 „ pediotragus, ii 157
 „ perpusilla, ii 170
 „ personata, ii 33
 „ perspisilla, ii 101
 „ phalerata, iii 157
 „ picta, iii 225
 „ picticaudata, iii 30
 „ pluto, ii 91
 „ ptox, ii 108
 „ pygarga, ii 33, iii 110
 „ pygmæa, ii 100, 169
 „ quadricornis, iii 220
 „ (Raphicercus) acuticor-
 nis, ii 147
 „ „ subulata, ii 147
 „ recticornis, iii 119
 „ redunca, ii 211, 214
 „ (Redunca) bohor, ii 214
 „ „ eleotragus, ii
 204
 „ „ redunca, ii 211
 „ „ villosa, ii 200
 „ regia, ii 169
 „ reversa, ii 211
 „ rubro-albescens, ii 156
 „ rufa, ii 211
 „ rufescens, ii 157
 „ ruficollis, iii 107

- Antilope rupestris, ii 147
 „ rupicapra, i 180, iii 24
 „ (Rupicapra) americana, i 218
 „ „ rupicapra, i 180
 „ saccata, iii 110
 „ saiga, iii 13
 „ saliens, iii 110
 „ saltans, iii 110
 „ saltatrix, ii 123, iii 110
 „ saltatrixoides, ii 124
 „ saltiana, ii 174
 „ scoparia, ii 133
 „ scripta, iii 152
 „ scythica, iii 14
 „ senegalensis, ii 39
 „ silvicultrix, ii 63
 „ sing-sing, ii 241
 „ soemmerringi, iii 96
 „ soemmerringii, iii 86
 „ spinigera, ii 169
 „ (Spinigera) spiniger, ii 169
 „ strepsiceros, iii 196
 „ subgutturosa, iii 42
 „ sub-4-cornutus, iii 222
 „ sumatraensis, i 188
 „ sumatrensis, i 188
 „ suturosa, iii 147
 „ sylvatica, iii 177
 „ sylvicultrix, ii 63
 „ tao, iii 126
 „ tatarica, iii 15
 „ taurina, ii 54
 „ (Taurotragus) depressicornis, i 48
 „ „ derbianus, iii 216
 „ „ livingstonii, iii 212
 „ „ oreas, iii 210
 „ tendal, iii 202
 „ (Tepone) longiceps, ii 66
 „ (Tetracerus) quadricornis, iii 221
 „ tetracornis, iii 221
 „ thar, i 193
 „ tilonura, iii 81
 „ torticornis, iii 198
 „ (Tragelaphus) decula, iii 159
 „ „ ogilbyi, ii 83
 „ „ phalerata, iii 157
 Antilope (Tragelaphus) strepsiceros, iii 197
 „ „ sylvatica, iii 178
 „ tragocamelus, iii 225
 „ tragulus, ii 146
 „ „ melanotis, ii 156
 „ (Tragulus) oreotragus, ii 124
 „ tragulus pallida, ii 157
 „ „ rupestris, ii 147
 „ triangularis, iii 210
 „ truteri, iii 134
 „ tzeiran, iii 35
 „ unctuosus, ii 241
 „ vardoni, ii 268
 „ villosa, ii 200
 „ zebra, ii 89
 „ zebrata, ii 89
 antiquorum, Alces, iv 230
 „ Equus quagga, v 22
 „ Giraffa camelopardalis, iii 244
 antisensis, Hippocamelus, iv 196
 antiensis, Furcifer, iv 194
 Aoul, iii 97
 Aper, iv 307
 „ æthiopicus, iv 366
 „ orientalis, iv 345
 Aploceros montanus, i 218
 Aplocerus, i 217
 apodonticus, Sika, iv 107
 apura, Subulo, iv 199
 aquaticum, Dorcatherium, iv 295
 „ „ aquaticum, iv 296
 aquaticus, Moschus, iv 295
 Arabian Oryx, iii 130
 „ Tahr, i 176
 arabica, Antilope, iii 51
 „ Capra, i 154
 „ Gazella, iii 57, 58
 „ „ arabica, iii 59
 aramensis, Sus, iv 330
 arboreus, Hyrax, v 68, 76
 arcar, Ovis, i 90
 arcticus, Rangifer tarandus, iv 254
 Argali, i 73, 93
 argali, Caprovis, i 98
 „ Ovis, i 92
 argyrochætes, Capricornis, i 196
 argyropus, Hydropotes, iv 258
 Ariel, iii 58, 107
 Aries, i 129
 „ tragelaphus, i 123

- aries, Ovis, i 75
 arietinus, Sika, iv 107
 " Sus, iv 333
 aristotelis, Cervus, iv 71
 arkal, Ovis, i 90
 arkar, Ovis, i 90, 107
 " " vignei, i 90
 arna, Bubalus, i 41
 arnee, Bos, i 41
 Arni, i 42
 arni, Bos, i 41
 " Bubalus, i 41
 arnouxianus, Næmorhedus, i 206
 aruensis, Sus, iv 330
 Arui, i 123
 arundinacea, Cemas, ii 204
 arundinaceus, Antilope, ii 204
 " Eleotragus, ii 214
 arundinum, Cervicapra, ii 205
 " Redunca arundinum,
 ii 206
 " " (Eleotragus), ii
 203
 arushæ, Eudorcas thomsoni, iii
 84
 aschantiensis, Procavia (Dendro-
 hyrax), v 78
 Asiatic Ibex, i 143
 asiatica, Antilope ensicornis, iii
 130
 " Rupicapra rupicapra, i
 185
 asiaticus, Cervus canadensis, iv
 134, 136
 " Elephas, v 82
 " Rhinoceros, v 48
 Asinus, v 36
 " africanus, v 38
 " burchellii, v 21
 " equioides, v 9
 " hamar, v 14
 " hemionus, v 9, 11
 " hemippus, v 14
 " indicus, v 12
 " kiang, v 9
 " kyang, v 9
 " onager, v 12
 " polyodon, v 9
 " quagga, v 20
 " somalicus, v 39
 " somaliensis, v 38
 " tæniopus, v 38
 " vulgaris, v 37
 " " var. tæniopus, v
 38
 " zebra, v 35
 asinus, Equus (Asinus), v 36, 37
 " " asinus, v 37
 asracensis, Bos caffer, i 57
 Ass, v 37
 Assami, iv 357
 asseel, Bibos, i 15
 Ata, iii 31
 Atelodus, v 51
 " bicornis, v 54
 " keitloa, v 54
 " oswelli, v 56
 " simus, v 56
 athabascæ, Bos bison, i 39
 atheneensis, Ussa, iv 89
 athiensis, Bos caffer, v 92
 atlanticus, Cervus elaphus, iv 122
 attila, Sus scrofa, iv 316
 Auchenia, iv 301
 " glama, iv 302
 " guanaco, iv 302
 " huamel, iv 193
 " huanaca, iv 302
 " huanacus, iv 302, 303
 " lama, iv 302, 303
 " llama, iv 302
 " vicugna, iv 304
 Auchenias, iv 301
 auduboni, Ovis canadensis, i 113
 Aulacochoerus, iv 307
 " vittatus, iv 323
 Aulochoerus vittatus, iv 335
 aureus, Cephalophus, ii 72
 " Cervulus, iv 21
 " Muntiacus muntjak, iv 24
 " Oreotragus oreotragus, ii
 127
 aurita, Antilope, iii 134
 " Mazama, iv 214
 auritus, Cervus, iv 176
 " Coassus, iv 214
 australis, Camelopardalis, iii 256
 " Strepsicerus imberbis,
 iii 195
 " Hippopotamus amphi-
 bius, iv 392
 Austritragus, i 186
 " sumatrensis, i 188
 Axis, iv 48
 " alfredi, iv 62
 " axis, iv 49
 " (Axis) axis, iv 49
 " duvaucellii, iv 93
 " (Hyelaphus) porcinus, iv 55
 " maculata ceylonensis, iv 53
 " maculatus, iv 49
 " major, iv 49

- Axis mantschuricus, iv 110
 „ minor, iv 49
 „ nudipalpebra, iv 49
 „ oryzus, iv 55
 „ peronii, iv 64
 „ pennantii, iv 71
 „ porcinus, iv 54
 „ pseudaxis, iv 116
 „ sika, iv 107
 „ taivanus, iv 111
 axis, Cervus axis, iv 51
 „ „ (Axis), iv 49
 azaræ, Cervus, iv 189
 azrakensis, Bos caffer, i 57

 babi, Sus vittatus, iv 328
 babirousa, Sus, iv 346
 Babiroussa, iv 344
 Babiroussus, iv 344
 Babirusa, iv 344, 345
 „ alfurus, iv 346
 „ babirusa, iv 345
 „ celebensis, iv 346
 „ orientalis, iv 345
 babirusa, Babirusa, iv 345
 „ Sus, iv 346
 Babirussa, iv 344
 „ alfurus, iv 345, 346
 „ babyrussa, iv 345
 „ „ babyrussa, iv 345
 „ „ celebensis, iv 346
 babirussa, Sus, iv 346
 Babyrussa, iv 344
 babyrussa, Babirussa, iv 345
 „ „ babyrussa, iv 345
 „ „ Poreus, iv 346
 bactrianus, Camelus, iv 300
 „ Cervus canadensis, iv 138
 badius, Cephalophus, ii 80
 bahr-keetæ, Kobus kob, ii 259
 bahrinja, Cervus, iv 93
 baicalensis, Cervus canadensis, iv 134
 Baira, ii 196
 Baird's Tapir, v 45
 bairdi, Tapirus (Elasmognathus), v 45
 bairdii, Elasmognathus, v 45
 bajovaricus, Cervus, iv 124
 bakeri, Cephalophus æquatorialis, ii 98
 „ Dendrohyrax, v 69
 bakeri, Hippotragus equinus, iii 138
 balabacensis, Sus barbatus, iv 342
 balticus, Cervus, iv 124
 „ „ (Capreolus) capreolus, iv 221
 bambhera, Caprovis, i 98
 bamendæ, Procavia, v 75
 bancanus, Muntiacus muntjak, iv 15
 „ Tragulus javanicus, iv 275
 banteng, Bos, i 29
 „ „ banteng, i 23
 „ „ (Bibos), i 21
 Bantin, i 22
 Banting, i 22
 banting, Bos, i 22
 barandanus, Cervus unicolor, iv 85
 Barasingha, iv 94
 barbarus, Cervus elaphus, iv 120
 „ Sus scrofa, iv 315
 Barbary Sheep, i 123
 barbata, Antilope, iii 134
 barbatus, Phacochoerus, iv 366
 „ Sus, iv 338, 341
 „ „ barbatus, iv 340
 baringoënsis, Eudorcas, iii 84
 Barking Deer, iv 14
 Barren-Ground Caribou, iv 254
 baryceros, Ussa, iv 89
 basilanensis, Cervus unicolor, iv 85
 Bastard Gemsbok, iii 135
 batesi, Dorcatherium aquaticum, iv 297
 „ Neotragus (Hylarnus), ii 166
 battyi, Odocoileus virginianus, iv 164
 batuanus, Tragulus javanicus, iv 279
 bea, Strepsiceros strepsiceros, iii 201
 Beatragus, ii 32
 „ hunteri, ii 46
 Beatrix Oryx, iii 130
 beatrix, Oryx, iii 130
 beddingtoni, Bos caffer, i 70
 beden, Ægoceros, i 154
 bedfordi, Budorcas, i 217
 „ Capreolus, iv 224
 „ „ bedfordi, iv 225
 „ Urotragus, i 204
 bedfordiæ, Alces alces, iv 234
 bedfordianus, Cervus, iv 133

- Bedin, i 153
 behni, *Eudorcas thomsoni*, iii 84
 Beira, ii 196
 beisa, *Oryx*, iii 122, 125
 " " beisa, iii 123
 bengalensis, *Elephas indicus*, v 82
 bengalensis, *Sus*, iv 318
 Beni Israel, ii 175
 bennetti, *Gazella*, iii 49, 50, 59
 bennettii, *Antilope*, iii 50
 berberana, *Gazella soemmerringi*,
 iii 100
 berberensis, *Equus grevyi*, v 18
 bergeri, *Eudorcas*, iii 84
 bergerinae, *Eudorcas thomsoni*, iii
 84
 berthelanus, *Capricornis*, i 202
 bettoni, *Procavia (Dendrohyrax)*,
 v 78
 bezoartica, *Antilope*, iii 119
 " *Cervicapra*, iii 24
 " *Mazama*, iv 189
 bezoarticus, *Blastocerus*, iv 188,
 189
 " *Oryx*, iii 127
 bezoartica, *Antilope*, iii 127
 bezoastica, *Antilope (Oryx)*, iii 126
 Bharal, i 127
 Bibos, i 13
 " asseel, i 15
 " banting, i 22
 " cavifrons, i 14
 " discolor, i 30
 " frontalis, i 15
 " fuscicornis, i 30
 " gaurus, i 14
 " longicornis, i 30
 " sondaicus, i 22
 " subhemachus, i 14
 Bicerus bicornis, v 54
 bicolor, *Cephalophus*, ii 101
 " *Tapirus*, v 40
 bicornis, *Rhinoceros (Diceros)*, v
 52, 54
 biedermani, *Cervus canadensis*,
 iv 137
 " *Eudorcas*, iii 84
 biessa, *Oryx*, iii 122
 Bighorn Sheep, i 110
 bilineata, *Antilope*, iii 24
 billitonius, *Tragulus javanicus*, iv
 277
 bira, *Mazama*, iv 209
 birmanicus, *Bos banteng*, i 27
 Bison, i 34, 35
 " americanus, i 37
 Bison, americanus athabascæ, i 39
 " bison, i 38
 " " athabascæ, i 39
 " bonassus, i 35
 " bonasus, i 35
 " " var. caucasia, i 36
 " " caucasicus, i 36
 " caucasicus, i 36
 " europæus, i 35
 " gaurus, i 14
 " poëphagus, i 31
 " sylhetanus, i 15
 bison, Bos, i 35
 " " (Bison), i 37, 38
 " " bison, i 38
 bisulca, *Mazama*, iv 194
 bisuleus, *Hippocamelus*, iv 193,
 194
 biturigum, *Camelopardalis*, iii 241
 Blaauwbok, iii 133
 Black Rhinoceros, v 54
 Black-tailed Deer, iv 182
 Blackbuck, iii 25
 blainei, *Ammotragus lervia*, i 126
 blainvillei, *Heterohyrax*, v 69
 blainvillii, *Dendrohyrax*, v 69
 blakistonius, *Sika*, iv 107
 blanfordi, *Ovis*, i 88
 Blastoceros, iv 186
 " azaræ, iv 189
 " comosus, iv 189
 " paludosus, iv 187
 Blastocerus, iv 186
 " bezoarticus, iv 188,
 189
 " dichotomus, iv 186,
 187
 Blesbok, ii 36
 Blue Antelope, iii 132
 " Wildebeest, ii 55
 blythi, *Capra hircus*, i 159
 " *Ovis*, i 98
 " *Rhinoceros sumatrensis*, v
 50
 Boar, Wild, iv 310
 bocagei, *Hyrax*, v 76
 boehmi, *Equus quagga*, v 26
 bæticus, *Sus scrofa*, iv 314
 böhmi, *Equus*, v 26
 Bohor, ii 212, 214
 bohor, *Redunca redunca*, ii 214
 bolivari, *Cervus elaphus*, iv 121
 Bonasus, i 34
 " europæus, i 35
 bonasus, Bos (Bison), i 35
 " " bonasus, i 36

- Bongo, iii 204
 boninensis, *Cervus unicolor*, iv 88
 Bontebok, ii 34
 Bontequagga, v 22
 Boocercus, iii 203
 Boocercus eurycerus, iii 203, 204
 " " eurycerus, iii 205
 " " isaaci, iii 206
 " isaaci, iii 206
 Boocercus, iii 203
 " eurycerus, iii 204
 Boocercus, iii 203
 bor, *Tragelaphus scriptus*, iii 164
 borana, *Procavia brucei*, v 70
 borealis, *Odocoileus virginianus*, iv 160
 " *Ovis canadensis*, i 121, 122, v 99
 " *Tarandus*, iv 239
 borneanus, *Tragulus javanicus*, iv 270
 borneensis, *Sus verrucosus*, iv 336
 borneënsis, *Sus celebensis*, iv 336
 Bos, i 11, v 92
 " (subgenus), i 12
 " *æquinoxialis*, i 58
 " *americanus*, i 37
 " (*Anoa*) *depressicornis*, i 48
 " *arnee*, i 41
 " *arni*, i 41
 " *banteng*, i 21, 29
 " *banteng*, i 23
 " *birmanicus*, i 27
 " *butleri*, i 29
 " *lowi*, i 25
 " *porteri*, i 28
 banting, i 22
 (*Bibos*) *banteng*, i 21
 " *frontalis*, i 15
 " *gaurus*, i 13, 15
 " *sondaicus*, i 22
 bison, i 35, 37
 (*Bison*) *americanus*, i 37
 bison *athabascæ*, i 39
 (*Bison*) *bison*, i 35, 37, 38
 bison " i 38
 (*Bison*) *bonasus*, i 35
 " *gaurus*, i 13
 " *grunniens*, i 31
 " *poëphagus*, i 31
 bonasus, i 35
 (*Bonasus*) *americanus*, i 37
 bonasus bonasus, i 36
 " *caucasicus*, i 36
 " *caucasius*, i 36
 Bos *brachicheros*, i 68
 " *brachyceros*, i 62, 68
 " *bubalis*, i 41
 " " *bubalis*, i 43
 " " *fulvus*, i 45
 " " *hosei*, i 46
 " " *macroceros*, i 45
 " " *palæindicus*, i 45
 bubalus, i 41
 (*Bubalus*) *arnee*, i 41
 " *bubalis*, i 41, 42
 " *bubalus*, i 41
 " *buffelus*, i 41
 " *caffer*, i 50, v 92
 " " *beddingtoni*, i 70
 " " *hunti*, i 67
 " " *depressicornis*, i 48
 bubalus, *var.* *fulvus*, i 45
 (*Bubalus*) *mindorensis*, i 47
 buffelus, i 41
 caffer, i 50
 " *adamauæ*, v 95
 " *adametzi*, v 96
 " *æquinoctialis*, i 58, v 94
 " *asracensis*, i 57
 " *athiensis*, v 92
 " *azrakensis*, i 57
 " *beddingtoni*, i 70
 " *brachyceros*, i 62, v 94
 " *caffer*, i 52
 " *cottoni*, i 60
 " *diehli*, v 95
 " *gariepensis*, i 55
 " *houyi*, v 94
 " *hunti*, i 67, v 95
 " *hylæus*, v 96
 " *limpopoënsis*, i 56
 " *matheusi*, i 59
 " *mayi*, i 32
 " *nanus*, i 68
 " *neumanni*, i 53
 " *nuni*, v 97
 " *pihillingsi*, i 54
 " *planiceros*, i 66
 " *radcliffei*, i 55
 " *ruahensis*, i 53
 " *schillingsi*, i 54
 " *simpsoni*, i 70
 " *thierryi*, i 61
 " *typicus*, i 52
 " *wembaerensis*, i 54
 " *wemberensis*, i 54
 " *wiesei*, i 57
 centralis, i 58

- Bos connochætes, ii 51
 „ depressicornis, i 48
 „ „ depressicornis, i 49
 „ „ fergusoni, i 50
 „ frontalis, i 15
 „ gaur, i 14
 „ gaurus, i 13
 „ „ frontalis, i 15
 „ „ gaurus, i 18
 „ „ hubbacki, i 20
 „ „ readi, i 20
 „ gavaeus, i 14
 „ gnou, ii 50
 „ gnu, ii 51
 „ gour, i 14
 „ grunniens, i 31
 „ „ mutus, i 33
 „ kerabau, i 41
 „ leptoceros, i 30
 „ leucoprymnus, i 21
 „ mindorensis, i 47
 „ moschatus, i 224
 „ nanus, i 68
 „ palæindicus, i 45
 „ poëphagus, i 31
 „ (Poëphagus) grunniens, i 31
 „ pumilus, i, 66, 68
 „ sondaicus, i 21, 29
 „ „ birmanicus, i 27
 „ „ butleri, i 29
 „ „ lowi, i 25
 „ „ porteri, i 28
 „ sylhetanus, i 15
 „ taurus, i 12
 „ urus, i 12, 35
 Bosch-Vark, iv 351
 Boschbok, iii 178
 Boselaphus, iii 224
 „ albipes, iii 226
 „ bubalis, ii 5, 8
 „ caama, ii 25
 „ canna, iii 209
 „ derbianus, iii 216
 „ lichtensteini, ii 29
 „ major, ii 6
 „ oreas, iii, 209, 216
 „ pictus, iii 226
 „ tragocamelus, iii 225,
 226
 boselaphus, Bubalis, ii 5
 Bosovis, i 222
 „ melvillensis, i 228
 „ moschatus, i 225
 „ niphæcus, i 228
 „ wardi, i 227
 bounhioli, Procavia, v 74
 brachicheros, Bos, i 68
 brachyceros, Bos, i 68
 „ „ caffer, i 62, v 94
 „ Cervus, iv 175
 „ Ussa, iv 89
 brachypus, Sikaillus, iv 107
 brachyrhinus, Gauribos, i 30
 „ Sika, iv 107
 brachyrinus, Sambar, iv 92
 bradshawi, Cephalophus natalen-
 sis, ii 71
 Brazilian Tapir, v 42
 brevicaudata, Antilope, ii 138
 breviceps, Cephalophus, ii 80
 breviceps, Kobus defassa, ii 238
 brevipes, Tragulus kanchil, iv 284
 bricenii, Mazama, iv 207
 bridgmani, Cervulus, iv 31
 brighti, Gazella granti, iii 93
 Brindled Gnu, ii 55
 Brocket, Red, iv 200
 brookei, Cephalophus, ii 84
 „ Cervus unicolor, iv 80
 „ Ovis, i 98
 brookii, Catoblepas, ii 59
 Brow-antlered Deer, iv 100
 Brown Himalayan Goral, i 206
 brucei, Hyrax, v 65, 69
 „ Procavia brucei, v 69
 brunneus, Tragelaphus haywoodi,
 iii 170
 Bubalibos, i 13
 „ annamiticus, i 30
 bubalina, Antilope, i 193
 bubalinus, Alcelaphus, ii 5
 „ Nemorhædus, i 193
 Bubalis, ii 3, v 100
 „ albifrons, ii 35
 „ boselaphus, ii 5
 „ bubalis, ii 5, 8
 „ bubastis, v 101
 „ buselaphus, ii 4, 5
 „ caama, ii 24, 25
 „ „ caama, ii 27
 „ „ selbornei, ii 27
 „ cama, 25
 „ cokei, ii 13, v 101
 „ „ cokei, ii 15
 „ „ kongoni, ii 17
 „ „ nakuræ, ii 16
 „ „ rothschildi, ii 16
 „ „ sabakiensis, v 101
 „ „ schillingsi, v 101
 „ „ tanæ, v 101
 „ „ membaerensis, v
 101

Bubalis hunteri, ii 46
 „ *jacksoni*, ii 21
 „ „ *insignis*, ii 23
 „ *jimeru*, ii 44
 „ *koba*, ii 42
 „ *korrigum*, ii 39
 „ *lelwel*, ii 19, 21, v 101
 „ „ *insignis*, ii 23
 „ „ *jacksoni*, ii 21
 „ „ *keniæ*, v 102
 „ „ *lelwel*, ii 20
 „ „ *modestus*, v 102
 „ „ *niediecki*, ii 23
 „ „ *roosevelti*, ii 24
 „ „ *tschadensis*, ii 20
 „ „ *typica*, ii 20
 „ *leucopymnus*, ii 29
 „ *lichtensteini*, ii 29
 „ *lunatus*, ii 37
 „ *luzarchei*, v 102
 „ *major*, ii 6, v 100
 „ „ *invadens*, v 100
 „ „ *major*, v 100
 „ „ *matschiei*, v 100
 „ *mauretunica*, ii 5
 „ *nakuræ*, ii 16
 „ *neumanni*, ii 18
 „ *niediecki*, ii 23
 „ *noacki*, ii 13
 „ *pygarga*, ii 34
 „ *rothschildi*, ii 16
 „ *schillingsi*, v 101
 „ *senegalensis*, ii 39
 „ *swaynei*, ii 12
 „ „ *noacki*, ii 13
 „ *tora*, ii 8, 9
 „ „ *digglei*, ii 11
 „ „ *neumanni*, ii 18
 „ „ *noacki*, ii 13
 „ „ *rahatensis*, ii 11
 „ „ *swaynei*, ii 12
 „ „ *tora*, ii 10
 „ „ *typica*, ii 10
bubalis, *Antilope*, ii 4
 „ *Bos* (*Bubalus*), i 41, 72
 „ „ *bubalis*, i 43
Bubalus, i 40
 „ *adametzi*, v 96
 „ *æquinoctialis*, i 58
 „ (*Anoa*) *depressicornis*, i 48
 „ *arna*, i 41
 „ *arnee*, i 41
 „ *arni*, i 41
 „ *azrakensis*, i 57
 „ *brachyceros*, i 62, 69

Bubalus brachyceros, i 62
 „ *bubalis*, i 42
 „ *bubalus*, i 41
 „ „ *septentrionalis*, i 46
 „ *buffelus*, i 41
 „ „ *macrocerus*, i 45
 „ „ *spirocerus*, i 43
 „ *caffer*, i 50
 „ „ *adamauæ*, v 95
 „ „ *æquinoctialis*, i 58
 „ „ *athiensis*, v 92
 „ „ *bubuensis*, v 93
 „ „ *diehli*, v 95
 „ „ *equinoctialis*, i 58
 „ „ *houyi*, v 94
 „ „ *hylæus*, v 96
 „ „ *radcliffei*, i 55
 „ „ *tanæ*, v 93
 „ *centralis*, i 66
 „ *depressicornis*, i 48
 „ *diehli*, v 95
 „ *gariensis*, i 55
 „ *gnu*, ii 52
 „ *hunti*, v 95
 „ *indicus*, i 41
 „ *kerabau*, i 41
 „ *limpopoënsis*, i 56
 „ *lunatus*, ii 37, 42
 „ *mainitensis*, i 47
 „ *massaicus*, v 93
 „ *mathewsi*, i 59
 „ *mauritanicus*, ii 5
 „ *mayi*, i 62
 „ *mindorensis*, i 47
 „ *moellendorffi*, i 46
 „ *moschatus*, i 225
 „ *nanus*, i 69
 „ *neumanni*, i 53
 „ *pihillingsi*, i 54
 „ *planiceros*, i 66
 „ *pumilus*, i 62, 69
 „ „ *occidentalis*, i 69
 „ „ *orientalis*, i 58
 „ *reclinis*, i 68
 „ *ruahaensis*, i 53
 „ *ruahensis*, i 53
 „ *ruhahensis*, i 53
 „ *schillingsi*, i 54
 „ *seleniceros*, i 22
 „ *thierryi*, i 61
 „ *urundicus*, v 94
 „ *wembarensis*, i 54
 „ *wemberensis*, i 54
 „ *wiesei*, i 57
 „ *wintgensii*, v 93

- bubalus, Bos i 41
 bubastis, Bubalis, v 101
 bubuensis, Bubalus caffer, v 93
 Budorcas, i 210
 ,, bedfordi, i 217
 ,, sinensis, i 214
 ,, taxicola, i 211
 ,, taxicolor, i 211
 ,, mitchelli, i 214
 ,, sinensis, i 214
 ,, taxicolor, i 211
 ,, var. tibetana, i 214
 ,, tibetanus, i 214
 ,, whitei, i 213, 214
 ,, tibetana, i 214
 ,, tibetanus, i 214
 Buffalo, African, i 51
 ,, Indian, i 42
 ,, Mindoro, i 47
 Buffelus, i 40
 ,, caffer, i 51
 ,, indicus, i 40
 ,, sondaicus, i 41
 buffelus, Bos, i 41
 Buffon's Kob, ii 256
 bufo, Phacochærus æthiopicus, iv 372
 bunguranensis, Tragulus javanicus, iv 279
 Burchell's Rhinoceros, v 56
 ,, Zebra, v 22
 burchelli, Antilope (Cephalophus), ii 107
 ,, Equus quagga, v 21, 22
 burchellii, Asinus, v 21
 ,, Rhinoceros, v 56
 burrhel, Ovis, i 127
 burtoni, Procavia, v 64
 buruensis, Hippelaphus, iv 92
 Buselaphus, iii 224
 buselaphus, Bubalis, ii 4, 5
 Bush-Pig, iv 351
 Bushbuck, iii 154, 178
 butleri, Bos banteng, i 29
 ,, Procavia, v 74
 Butragus, ii 48
 ,, corniculatus, ii 54
 butteri, Gazella soemmerringi, iii 101
 buxtoni, Tragelaphus, iii 182
 caama, Bubalis, ii 24
 ,, caama, ii 27
 caballus, Equus, v 6
 ,, caballus, v 6
 cacsilensis, Lama glama, iv 304
 cærulea, Antilope (Cephalophus), ii 100
 cæruleus, Cephalophus, ii 101
 cærus, schultzei, Cephalophus, v 107
 caffer, Bos (Bubalus), i 50, v 92
 ,, caffer, i 52
 ,, Cephalophus pygmaeus, ii 101
 caffra, Redunca isabellina, ii 205
 ,, Sylvicapra, ii 108
 calamianensis, Cervus (Hyelaphus), iv 59
 ,, Sus barbatus, iv 343
 californiana, Ovis canadensis, i 113
 californianus, Ovis, i 113
 californica, Cervus maral, iv 133
 ,, Mazama hemionus, iv 179
 ,, Ovis, i 113
 californicus, Odocoileus hemionus, iv 179
 Calliope, iii 191
 ,, decula, iii 159
 ,, scripta, iii 153
 ,, strepsiceros, iii 197
 ,, sylvatica, iii 178
 callipyga, Cephalophelia, ii 85
 callipygus, Cephalophus, ii 85
 callotis, Oryx beisa, iii 125
 Calotragus, ii 145
 ,, campestris, ii 147
 ,, capreolus, ii 200
 ,, hastata, ii 135
 ,, melanotis, ii 156
 ,, pallida, ii 157
 ,, montanus, ii 138
 ,, oreotragus, ii 124
 ,, oureby, ii 133
 ,, rufescens, ii 157
 ,, saltatrix, ii 124
 ,, saltatrixoides, ii 126
 ,, saltianus, ii 175
 ,, scoparius, ii 133
 ,, spiniger, ii 170
 ,, tragulus, ii 147
 cama, Bubalis, ii 25
 cambojensis, Cervulus, iv 78
 ,, Rucervus, iv 78, 98
 Camelopardalis, iii 236
 ,, æthiopicus, iii 241
 ,, antiquorum, iii 244

- Camelopardalis australis*, iii 256
 „ *biturigum*, iii 241
 „ *capensis*, iii 256
 „ *giraffa*, iii 240
 „ „ *var. æthi-*
 opica, iii 244
 „ *sennaarensis*, iii
 244
camelopardalis, *Giraffa*, iii 240,
 250, 251
 „ „ *camelo-*
 pardalis, iii 242
Camelus, iv 299
 „ *bactrianus*, iv 300
 „ *dromedarius*, iv 300
 „ *glama*, iv 302
 „ *huanacus*, iv 302
 „ *lama*, iv 302
 „ *vicugna*, iv 304
campbelliæ, *Cephalophus grimmi*,
 ii 116
camperi, *Rhinoceros*, v 54
campestris, *Cervus*, iv 188
 „ „ *vulgaris*, iv 125
 „ *Hippotigris*, v 21, 35
 „ *Raphicerus*, ii 146
 „ „ *campestris*, ii
 149
canus, *Rhinoceros*, v 56
cana, *Cemas*, ii 107
canadensis, *Cervus*, iv 129
 „ „ *canadensis*, iv
 131
 „ *Ovis*, i 109, v 99
 „ „ *canadensis*, i 111
canescens, *Kobus ellipsiprymnus*,
 ii 229
 „ *Tragulus javanicus*, iv
 270
canna, *Antilope (Oreas)*, iii 209
 „ *Oreas*, iii 213
canus, *Capreolus capreolus*, iv 223
 „ *Odocoileus hemionus*, iv
 181
Cape Hartebeest, ii 25
Capella, i 179
 „ *rupicapra*, i 180, 218
capella, *Rupicapra*, i 180
capensis, *Antilope*, ii 51, 147, iii
 132
 „ *Elephas africanus*, v 86
 „ *Giraffa camelopardalis*,
 iii 256
 „ *Hippopotamus*, iv 392
 „ *Oryx*, iii 120
 „ *Procavia*, v 58
capensis, *Procavia capensis*, v 60
 „ *Rhinoceros bicornis*, v
 53
 „ *Strepsicerus*, iii 197
 „ *Sus*, iv 351
Capra, i 129, v 99
 „ *ægagrus*, i 157, 159, 161
 „ „ *cretensis*, i 161
 „ „ *picta*, i 161
 „ *æthiopica*, iii 134
 „ *alaiana*, i 148
 „ *alpina*, i 141
 „ *alpium sibiricum*, i 142
 „ *altaica*, i 144
 „ *ammon*, i 92
 „ *arabica*, i 154
 „ *beden*, i 154
 „ *blythi*, i 159
 „ *caucasica*, i 131, 133, 136,
 157
 „ „ *caucasica*, i 133
 „ „ *cylindricornis*, i 131
 „ „ *dinniki*, i 137
 „ „ *severtzowi*, i 136
 „ *cervicapra*, ii 33, iii 23
 „ *columbiana*, i 218
 „ *cylindricornis*, i 131
 „ *dauvergnei*, i 150
 „ *dinniki*, i 137
 „ *dorcas*, iii 70
 „ *falconeri*, i 161, 166
 „ „ *cashmiriensis*, i 164
 „ „ *chialtanensis*, i 171
 „ „ *falconeri*, i 163
 „ „ *jerdoni*, i 169
 „ „ *megaceros*, i 167
 „ „ *typica*, i 163
 „ *fasciata*, i 144
 „ *gazella*, iii 119
 „ *grimmia*, ii 107, 146
 „ (*Hemitragus*) *hylocrius*, i
 177
 „ „ *jemlaicus*, i 174
 „ *himalayana*, i 142
 „ *hircus*, i 156
 „ „ *ægagrus*, i 157
 „ „ *var. ægagrus*, i 157
 „ „ *blythi*, i 159
 „ „ *cretensis*, i 161
 „ „ *picta*, i 161
 „ *hispanica*, i 140
 „ *hylocrius*, i 177
 „ *ibex*, i 141, 142
 „ „ *graucus*, i 141
 „ „ *himalayanus*, i 142
 „ (*Ibex*) *ibex*, i 141

- Capra* (*Ibex*) *nubiana*, i 153
 „ „ *severtzowi*, i 136
 „ „ *sibirica*, i 143
 „ „ *vali*, i 156
 „ „ *warryato*, i 177
 „ *jemlahica*, i 173
 „ *jemlaica*, i 174
 „ *jemlanica*, i 173
 „ *jerdoni*, i 169
 „ *jharal*, i 174
 „ *jubata*, iii 134
 „ *leucophæa*, iii 132
 „ *lusitanica*, i 139
 „ *megaceros*, i 162, 167
 „ *mengesi*, i 155
 „ *monticola*, ii 100
 „ *musmon*, i 75
 „ *nubiana*, i 153
 „ „ *mengesi*, i 155
 „ „ *nubiana*, i 154
 „ „ *sinaitica*, i 154
 „ „ *typica*, i 154
 „ *oreas*, iii 209
 „ (*Orthagoceros*) *falconeri*, i 162
 „ *pallasi*, i 131, 142
 „ *picta*, i 161
 „ *pudu*, iv 215
 „ *pygargus*, iii 110
 „ *pygmæa*, ii 169
 „ *pyrenaica*, i 138
 „ „ *hispanica*, i 140
 „ „ *lusitanica*, i 139
 „ „ *pyrenaica*, i 139
 „ „ *typica*, i 139
 „ „ *victoriæ*, i 140
 „ *quadrirammissis*, i 174
 „ *raddel*, i 138
 „ *rupicapra*, i 180
 „ *sakeen*, i 149
 „ *sakin*, i 149
 „ *sayga*, iii 14
 „ *scripta*, ii 33
 „ *severtzowi*, i 134, 136
 „ „ *dinniki*, i 137
 „ „ *severtzowi*, i 136
 „ *sibirica*, i 142
 „ „ *alaiana*, i 148
 „ „ *almasyi*, i 146
 „ „ *altaica*, i 144
 „ „ *dauvergnei*, i 145, 150
 „ „ *fasciata*, i 144
 „ „ *filippii*, i 152
 „ „ *hagenbecki*, i 145
 „ „ *lydekkeri*, i 145
- Capra sibirica merzbacheri*, i 147
 „ „ *pedri*, i 151
 „ „ *sacin*, i 149
 „ „ *sakeen*, i 149
 „ „ *sibirica*, i 143, 146
 „ „ *transalaiana*, i 148
 „ „ *typica*, i 143, 146
 „ „ *wardi*, i 148
 „ *sinaitica*, i 154
 „ „ *mengesi*, i 155
 „ *skyn*, i 149
 „ *strepsiceros*, iii 196
 „ *tatarica*, iii 13
 „ *vali*, i 155
 „ *valie*, i 155
 „ *wali*, i 155
 „ *walie*, i 155
 „ *warryato*, i 177
capræa, *Capreolus*, iv 219
Caprea, iv 218
 „ *campestris gutturosa*, iii 34
Capreolus, iv 218
 „ *bedfordi*, iv 224
 „ „ *bedfordi*, iv 225
 „ „ *melanotis*, iv 225
 „ *capræa*, iv 219
 „ *capreolus*, iv 219
 „ „ *canus*, iv 223
 „ „ *capreolus*, iv 221
 „ „ *thotti*, iv 223
 „ „ *transsylvanicus*, iv 222
 „ *dorcas*, iv 219
 „ *europæus*, iv 219
 „ *fossilis*, iv 219
 „ *leucotis*, iv 194
 „ *manchuricus*, iv 224
 „ *melanotis*, iv 225
 „ *pygargus*, iv 226
 „ „ *firghanicus*, iv 227
 „ „ *pygargus*, iv 227
 „ „ *tianschanicus*, iv 228
 „ *rhenanus*, iv 221
 „ *tianschanicus*, iv 228
 „ *transsylvanicus*, iv 222
 „ *vulgaris*, iv 219
 „ „ *niger*, iv 220
 „ „ *varius*, iv 220
 „ *wartha*, iv 221
capreolus, *Capreolus*, iv 219

- capreolus, *Capreolus capreolus*, iv 221
 „ *Pelea*, ii 199, 200
Capricornis, i 186
 „ (subgenus), i 188
 „ *argyrochaetes*, i 196
 „ *berthelanus*, i 202
 „ *bubalina*, i 193
 „ (*Capricornulus*) *crispus*, i 200
 „ „ *swinhoei*, i 201
 „ *chrysochaetes*, i 202
 „ *cornutus*, i 202
 „ *crispa*, i 200
 „ *crispus crispus*, i 200
 „ „ *pryerianus*, i 200
 „ *erythropygius*, i 202
 „ *longicornis*, i 202
 „ *marcolinus*, i 202
 „ *maritimus*, i 202
 „ *maxillaris*, i 202
 „ *microdonticus*, i 202
 „ *milne-edwardsi*, i 190
 „ *platyrhinus*, i 202
 „ *pryerianus*, i 201
 „ *rocherianus*, i 202
 „ *rubida*, i 192
 „ *sumatraensis*, i 188
 „ „ *argyrochaetes*, i 197
 „ „ *humei*, i 195
 „ „ *jamrachi*, i 191
 „ „ *milne-edwardsi*, i 190
 „ „ *robinsoni*, i 189
 „ „ *rodoni*, i 195
 „ „ *rubidus*, i 192
 „ „ *sumatraensis*, i 189
 „ „ *swettenhami*, i 189
 „ „ *thar*, i 193
 „ *sumatrensis*, i 188
 „ „ *bubalinus*, i 193
 „ „ *humei*, i 195
 „ „ *jamrachi*, i 191
 „ „ *milne-edwardsi*, i 190
 „ „ *robinsoni*, i 189
Capricornis, *sumatrensis rodoni*, i 195
 „ „ *rubidus*, i 192
 „ „ *sumatrensis*, i 189
 „ „ *swettenhami*, i 189
 „ „ *thar*, i 193
 „ „ *swinhoei*, i 201
 „ „ *swinhoei*, i 201
 „ „ *thar jamrachi*, i 191
 „ „ *ungulosus*, i 202
 „ „ *venetianus*, i 202
 „ „ *vidianus*, i 202
capricornis, *Raphicerus campestris*, ii 153
Capricornulus, i 186, 200
 „ *crispus*, i 200
 „ *pryerianus*, i 201
 „ *saxicola*, i 200
Caprovis, i 73
 „ *argali*, i 93, 98
 „ (*Argali*) *argali*, i 93
 „ „ *arkal*, i 90
 „ „ *canadensis*, 110
 „ „ *arkal*, i 90
 „ „ *bambhera*, i 98
 „ „ *canadensis*, i 110
 „ „ *cycloceros*, i 86
 „ „ *musimon*, i 75
 „ (*Musimon*) *orientalis*, i 78
 „ „ *vignei*, i 84
 „ „ *ophion*, i 79
 „ „ *orientalis*, i 78
 „ „ *polii*, i 107
 „ „ *vignei*, ii 84
Cariacus, iv 154, 175
 „ *americanus*, iv 156
 „ *antisiensis*, iv 196
 „ *campestris*, iv 189
 „ „ *chilensis*, iv 194
 „ „ *clavatus*, iv 169
 „ „ *columbianus*, iv 182
 „ „ *gymnotis*, iv 173
 „ „ *gymnotus*, iv 173
 „ „ *leptocephalus*, iv 185
 „ „ *leucurus*, iv 162
 „ „ *macrotris*, iv 176
 „ „ „ *columbianus*, iv 182
 „ „ *mexicanus*, iv 165
 „ „ *nanus*, iv 213
 „ „ *nemoralis*, iv 170
 „ „ *nemorivagus*, iv 209

- Cariacus osceola*, iv 162
 „ *paludosus*, iv 187
 „ *palustris*, iv 187
 „ *peruvianus*, iv 175
 „ *punctulatus*, iv 182
 „ *rufinus*, iv 205, 208
 „ *rufus*, iv 200
 „ *savannarum*, iv 174
 „ *similis*, iv 185
 „ *simplicornis*, iv 209
 „ *spinosus*, iv 174
 „ *superciliaris*, iv 203
 „ *sylvestris*, iv 189
 „ *tema*, iv 205
 „ *toltecus*, iv 167
 „ *truei*, iv 169
 „ *virginianus*, iv 156
 „ „ *var. couesi*, iv 164
 „ „ *mexicanus*, iv 165
 „ *virgultus*, iv 179
 „ *whitelyi*, iv 212
Caribou, iv 240, 246
 „ *Barren-Ground*, iv 254
 „ *Woodland*, iv 246
caribou, *Rangifer tarandus*, iv 246
carinata, *Tragulus kanchil*, iv 284
Carpathian Deer, iv 125
 „ *Reg Stag, Short-faced*, iv 125
casanovæ, *Gazella soemmerringi*, iii 100
cashmeerianus, *Cervus*, iv 146
cashmerensis, *Cervus*, iv 146
cashmeriensis, *Cervus*, iv 146
cashmirianus, *Cervus*, iv 146
cashmiriensis, *Capra falconeri*, i 164
 „ *Cervus*, iv 146
casperianus, *Cervus*, iv 146
caspicus, *Cervus*, iv 151
caspianus, *Cervus*, iv 126
castaneus, *Cephalophus*, ii 81, v 106
 „ „ *castaneus*, v 106
 „ *Equus onager*, v 13
castillianus, *Sus scrofa*, iv 314
Catoblepas, ii 48
 „ *brookii*, ii 59
 „ *gnu*, ii 51
 „ *gorgon*, ii 54
 „ *operculatus*, ii 51
 „ *reichei*, ii 55
 „ *taurinus*, ii 54
caucasica, *Bison bonasus*, i 36
caucasica, *Capra*, i 131, 136, 157
 „ „ *caucasica*, i 133
 „ *Rupicapra rupicapra*, i 183
causicus, *Bison*, i 36
 „ *Cervus*, iv 126
caucasi, *Bos bonasus*, i 36
caudata, *Cemas*, i 208
caudatus, *Nemorhædus*, i 208
cavendishi, *Elephas africanus*, v 89
 „ *Madoqua cavendishi*, ii 186
 „ „ (*Rhynchotragus*), ii 185
Cavia capensis, v 58
cavifrons, *Bibos*, i 14
cebifrons, *Neosus*, iv 336
celebensis, *Babirussa babyrussa*, iv 346
 „ *Probubalus*, i 48
 „ *Sus*, iv 331
 „ „ *celebensis*, iv 332
celtica, *Sus scrofa*, iv 310
Cemas, i 179, 202, ii 48
 „ *alces*, iii 209
 „ *algazel*, iii 126
 „ *arundinacea*, ii 204
 „ *cana*, ii 107
 „ *capreolus*, ii 199
 „ *caudata*, i 208
 „ *cinereus*, i 207
 „ *colus*, iii 14
 „ *dama*, iii 102
 „ *dorcas*, iii 71
 „ *glaucus*, iii 132
 „ *gnu*, ii 51
 „ *goral*, i 204
 „ *griseus*, i 207
 „ *gutturosa*, iii 35
 „ *kevella*, iii 71
 „ *maculata*, iii 71
 „ *marsupialis*, iii 110
 „ *melanura*, ii 133
 „ *oreotragus*, ii 124
 „ *oryx*, iii 129
 „ *pasan*, iii 120
 „ *picta*, iii 226
 „ *pygmæa*, ii 169
 „ *scriptus*, iii 153
 „ *strepsiceros*, iii 24
 „ *sylvatica*, iii 177
 „ *tragocamelus*, iii 226
centralis, *Antidorcas marsupialis*, iii 112

- centralis*, Bos, i 58
 „ *Bubalus*, i 66
 „ *Cephalophus*, ii 71
 „ *Gazella rufifrons*, iii 66
Centuriosus, iv 307
Cephalolophus, ii 60
Cephalophela, ii 63
 „ *doriae*, ii 90
Cephalophelia, ii 63
 „ *callipyga*, ii 85
Cephalophia, ii 63
 „ *ogilbyi*, ii 83
Cephalophorus natalensis, ii 68
 „ *ogilbyi*, ii 83
 „ *pygmaeus*, ii 169
 „ *zanzibaricus*, ii 160
 „ *zebra*, ii 89
Cephalophus, ii 60, v 106
 „ (subgenus), ii 63
 „ *abyssinicus*, ii 117
 „ „ *hindei*, ii 119
 „ „ *shirensis*, ii 120
 „ „ *æquatorialis*, ii 98
 „ „ *æquinoctialis*, ii 98
 „ „ *bakeri*, ii 98
 „ *altifrons*, ii 113
 „ *anchietæ*, ii 98
 „ *aureus*, ii 72
 „ *badius*, ii 80
 „ *bicolor*, ii 101
 „ *breviceps*, ii 80
 „ *brookei*, ii 84
 „ *burchelli*, ii 107
 „ *cæruleus*, ii 101
 „ *cærulus schultzei*, v 107
 „ *callipygus*, ii 85
 „ *campbelliæ*, ii 116
 „ *castaneus*, ii 81, v 106
 „ „ *castaneus*, v 106
 „ „ *orientalis*, v 106
 „ *centralis*, ii 71
 „ *claudi*, ii 73
 „ *coronatus*, ii 114
 „ *coxi*, ii 64
 „ *doria*, ii 89
 „ *doriæ*, ii 89, 90
 „ *dorsalis*, ii 80
 „ „ *castaneus*, ii 81
 „ „ *orientalis*, v 106
Cephalophus emini, ii 83
 „ *frederici*, ii 94
 „ *grimmii*, ii 108
 „ „ *abyssinicus*, ii 117, v 107
 „ „ *altifrons*, ii 113
 „ „ *altivallis*, ii 120
 „ „ *campbelliæ*, ii 116
 „ „ *coronatus*, ii 114
 „ „ *deserti*, v 108
 „ „ *flavescens*, ii 112
 „ „ *grimmii*, ii 110
 „ „ *hindei*, ii 119
 „ „ *luteus*, v 108
 „ „ *nyansæ*, ii 118
 „ „ *pallidior*, v 107
 „ „ *roosevelti*, ii 121
 „ „ *shirensis*, ii 120
 „ „ *splendidulus*, ii 114
 „ *grimmia*, ii 86, 108, 114
 „ „ *flavescens*, ii 112
 „ „ *lutea*, v 108
 „ *grimmus*, ii 108
 „ (Guevei) *hecki*, ii 105
 „ „ *lugens*, ii 106
 „ „ *maxwelli*, ii 93
 „ „ *melanorheus*, ii 96, v 107
 „ „ *monticola*, ii 100
 „ „ *nyasæ*, ii 103
 „ „ *simpsoni*, ii 105
 „ *harveyi*, ii 76
 „ „ *harveyi*, ii 77
 „ „ *keniæ*, ii 77
 „ *hecki*, ii 105
 „ *hemprichianus*, ii 184
 „ *ignifer*, ii 75
 „ *ituriensis*, ii 64
 „ *jentinki*, ii 66
 „ *johnstoni*, ii 75
 „ *leopoldi*, ii 78
 „ *leucochilus*, ii 82
 „ *leucogaster*, ii 79

- Cephalophus leucoprosopus*, ii
 121
 „ *longiceps*, ii 64
 „ *lugens*, ii 106
 „ *madoqua*, ii 117
 „ *maxwelli*, ii 93
 „ *melanoprymnus*, ii
 64
 „ *melanorheneus*, ii
 96
 „ *melanorheus*, ii 96
 „ „ *æquatorialis*,
 ii 98
 „ „ *anchietæ*, ii
 98
 „ „ *melanorheus*,
 ii 97
 „ „ *musculoides*,
 ii 99
 „ „ *schultzei*, v
 107
 „ „ *sundevalli*, ii
 97
 „ „ *typicus*, ii 97
 „ *mergens*, ii 107
 „ *monticola*, ii 101
 „ „ *muscu-*
lodes, ii 99
 „ *natalensis*, ii 68
 „ „ *amœnus*, ii 69
 „ „ *bradshawi*, ii
 71
 „ „ *natalensis*, ii
 69
 „ „ *vassei*, ii 70
 „ „ *robertsi*, ii 70
 „ *niger*, ii 91
 „ *nigrifrons*, ii 72
 „ *nyasæ*, ii 103
 „ „ *congicus*, ii
 104
 „ „ *defriesi*, ii 104
 „ „ *nyasæ*, ii 103
 „ *ocularis*, ii 113
 „ *ogilbyi*, ii 83, 84
 „ (*Ourebia*) *saltiana*,
 ii 175
 „ *philantomba*, ii 93
 „ *platous*, ii 107
 „ *ptoox*, ii 107
 „ *punctulatus*, ii 64,
 94
 „ *pygmæus*, ii 101
 „ „ *caffer*, ii 101
 „ „ *sundevalli*, ii
 97
- Cephalophus robertsi*, ii 70
 „ *rubidus*, ii 73
 „ *ruficrista*, ii 64
 „ *rufilatus*, ii 86
 „ „ *cuvieri*, ii 87
 „ „ *rubidior*, ii 89
 „ „ *rufilatus*, ii
 87
 „ *sclateri*, ii 64
 „ *simpsoni*, ii 105
 „ *spadix*, ii 67
 „ *spiniger*, ii 170
 „ (*Sylvicapra*) *grimmi*,
 ii 107, v 107
 „ (*Sylvicapra*) *leuco-*
prosopus, ii 121
 „ *sylvicultor*, ii 64
 „ „ *coxi*, ii 64
 „ *sylvicultrix*, ii 63
 „ *thomasi*, ii 64
 „ *walkeri*, ii 92
 „ *weynsi*, ii 74
 „ *whitfieldi*, ii 94
cephalophus, *Elaphodus*, iv 34
 „ „ *cephalo-*
phus, iv 35
Cephalopidium, ii 63
 „ „ *nigrum*, ii 91
Cephalops, ii 63
 „ „ *dorsalis*, ii 80
ceramicus, *Sus celebensis*, iv 335
cerasina, *Mazama tema*, iv 207
Ceratorhinus, v 49
 „ „ *blythi*, v 50
 „ „ *crossei*, v 51
 „ „ *crossii*, v 50
 „ „ *lasiotis*, v 51
 „ „ *niger*, v 50
 „ „ *sumatranus*, v 50
 „ „ *sumatrensis*, v 50
Ceratotherium, v 52
 „ „ *oswellii*, v 56
 „ „ *simum*, v 56
 „ „ *cottoni*, v 58
Cerf d'Antis, iv 196
Cerophorus (*Alcelaphus*) *bubalis*,
 ii 5
 „ „ *caama*, ii 25
 „ (*Antilope*) *cervicapra*,
 iii 24
 „ „ *gutturosa*, iii
 35
 „ „ *saiga*, iii 15
 „ (*Boselaphus*) *gnu*, ii
 51
 „ „ *oreas*, iii 209

- Cerophorus (Cervicapra) acuticornis*, ii 147
 „ „ *dama*, iii 102
 „ „ *eleotragus*, ii 204
 „ „ *grinnia*, ii 114
 „ „ *grisea*, ii 156
 „ „ *oreotragus*, ii 124
 „ „ *pygmæa*, ii 169
 „ „ *quadricornis*, iii 220
 „ „ *redunca*, ii 211
 „ „ *saltiana*, ii 174
 „ „ *stenbock*, ii 147
 „ (*Gazella*) *corinna*, iii 72
 „ „ *euchore*, iii 110
 „ „ *kevella*, iii 72
 „ „ *kob*, ii 253
 „ „ *nasomaculata*, iii 146
 „ „ *pygarga*, ii 33
 „ „ *subgutturosa*, iii 43
 „ (*Oryx*) *gazella*, iii 126
 „ „ *leucophæus*, iii 132
 „ „ *leucoryx*, iii 130
 „ „ *oryx*, iii 120
 „ (*Tragelaphus*) *strepsiceros*, iii 196
cerrosensis, *Odocoileus hemionus*, iv 180
Cervacapra eleotragus, ii 221
Cervequus, iv 192
 „ *andicus*, iv 193
Cervicapra, ii, 202, iii 22
 „ *adrob*, ii 214
 „ *arundinacea*, ii 205
 „ *arundineum occidentalis*, ii 210
 „ *arundinum*, iii, 205
 „ *bezoartica*, iii 24
 „ *bohor*, ii 214, 215
 „ „ *cottoni*, ii 217
 „ „ *nigeriensis*, ii 217
 „ „ *ugandæ*, ii 220
 „ „ *wardi*, ii 215
 „ *capreolus*, ii 200
 „ [*cervicapra*], iii 24
- Cervicapra clarkei*, iii 3
 „ „ *chanleri*, ii 223
 „ „ *defassa*, ii 232
 „ „ *ellipsiprymnus*, ii 227
 „ „ *fulvorufula*, ii 221
 „ „ „ *chanleri*, ii 223
 „ „ „ *shoana*, ii 224
 „ „ „ *subalpina*, ii 221
 „ „ *isabellina*, ii 204
 „ „ *lalandii*, ii 221
 „ „ *redunca*, ii 211
 „ „ „ *bohor*, ii 214
 „ „ „ *cottoni*, ii 217
 „ „ „ *donaldsoni*, ii 217
 „ „ „ *redunca*, ii 213
 „ „ „ *typica*, ii 213, 219
 „ „ „ *wardi*, ii 215
 „ „ *thomasinæ*, ii 205
cervicapra, *Antilope*, iii 23
 „ *Capra*, ii 33
cervina, *Ovis*, i 109
 „ „ *cervina*, i 111
Cervulus, iv 10
 „ „ *aureus*, iv 21, 24
 „ „ *bridgmani*, iv 31
 „ „ *cambojensis*, iv 78
 „ „ *capreolus*, iv 220
 „ „ *crinifrons*, iv 33
 „ „ *curvostylis*, iv 19
 „ „ *feæ*, iv 32
 „ „ *lacrymans*, iv 25
 „ „ *micrurus*, iv 30
 „ „ *moschatus*, iv 15, 21
 „ „ *muntjac*, iv 12, 15
 „ „ „ *curvostylis*, iv 19
 „ „ „ *grandicornis*, iv 20
 „ „ „ *tamulicus*, iv 21
 „ „ „ *typicus*, iv 14
 „ „ „ *vaginalis*, iv 22
 „ „ *pleiharicus*, iv 16
 „ „ *reevesi*, iv 30
 „ „ „ *pingshiangicus*, iv 30
 „ „ *reevesii*, iv 28
 „ „ *sclateri*, iv 26
 „ „ *sinensis*, iv 31
 „ „ *subcornutus*, iv 12
 „ „ *tamulicus*, iv 24
 „ „ „ *vaginalis*, iv 14, 21
Cervus, iv 46, 172
 „ (subgenus), iv 116
 „ „ *acapulcensis*, iv 167
 „ „ *affinis*, iv 141, 142, 185

- Cervus* ahu, iv 226
 „ albicornis, iv 71
 „ albicus, iv 124
 „ albipes, iv 24
 „ albirostris, iv 149
 „ alce, iv 230
 „ (Alce) alces, iv 230
 „ „ coronatus, iv 230
 „ alces, iv 230
 „ alfredi, iv 62
 „ americanus, iv 234
 „ andreanus, iv 107
 „ antisensis, iv 196
 „ antisensis, iv 194, 196
 „ aristotelis, iv 71
 „ asiaticus sibiricus, iv 137
 „ aureus, iv 24
 „ auritus, iv 176
 „ axis, iv 49
 „ (Axis) axis, iv 49
 „ axis axis, iv 51
 „ „ ceylonensis, iv 53
 „ „ major, iv 70
 „ (Axis) porcinus, iv 54
 „ „ pumilio, iv 54
 „ axis unicolor, iv 70
 „ azaræ, iv 189
 „ bactrianus, iv 138
 „ bahrinje, iv 93
 „ bajovaricus, iv 124
 „ balticus, iv 124
 „ barbarus, iv 120
 „ bedfordianus, iv 133
 „ bezoarticus, iv 188
 „ biedermanni, iv 137
 „ (Blastoceros) campestris, iv 189
 „ (Blastoceros) paludosus, iv 187
 „ brachyceros, iv 175
 „ brookei, iv 80
 „ calamianensis, iv 59
 „ camelopardalis, iii 240
 „ campestris, iv 188
 „ canadensis, iv 129
 „ „ asiaticus, iv 134, 136
 „ „ bactrianus, iv 138
 „ „ baicalensis, iv 134
 „ „ biedermanni, iv 137
 „ „ canadensis, iv 131
 „ „ eustephanus, iv 136
 „ „ luehdorfi, iv 133
 „ „ merriami, iv 132
 „ „ nannodes, iv 133
 „ „ occidentalis, iv 132
- Cervus canadensis sibiricus*, iv 135
 „ „ songaricus, iv 136
 „ „ typicus, iv 131
 „ „ wachei, iv 137
 „ „ wardi, iv 138
 „ „ xanthopygus, iv 133, 134
 „ capreolus, iv 219
 „ „ albus, iv 219
 „ (Capreolus) capreolus, iv 219
 „ „ „ albi-
 „ „ „ cus, iv 221
 „ „ capreolus
 „ „ balticus, iv 221
 „ „ capreolus cis-
 „ „ taunicus, iv 221
 „ „ capreolus
 „ „ transvosagicus, iv 221
 „ capreolus plumbeus, iv 219
 „ (Capreolus) pygargus, iv 226
 „ (Cariacus) virginianus, iv 156
 „ cashmeerianus, iv 146
 „ cashmerensis, iv 146
 „ cashmeriensis, iv 146
 „ cashmirianus, iv 146
 „ „ macneilli,
 „ „ „ iv 145
 „ „ „ yarkanden-
 „ „ „ sis, iv 139
 „ cashmiriensis, iv 146
 „ casperianus, iv 146
 „ caspicus, iv 151
 „ caspius, iv 126
 „ caucasicus, iv 126
 „ (Cervus) elaphus, iv 118
 „ „ maral, iv 126
 „ chilensis, iv 193
 „ clavatus, iv 155
 „ (Coassus) nanus, iv 213
 „ „ peruvianus, iv 175
 „ „ rufus, iv 200
 „ „ simplicicornis, iv 209
 „ columbianus, iv 182
 „ columbicus, iv 172
 „ comosus, iv 189
 „ coronatus, iv 230
 „ corsicanus, iv 120, 121
 „ culionensis, iv 59
 „ eyclorhinus, iv 107

- Cervus* (*Dactyloceros*) *dama*, iv 43
 „ *daima*, iv 42
 „ *dama*, iv 42
 „ „ *americanus*, iv 155
 „ „ *leucæthiops*, iv 42
 „ (*Dama*) *dama*, iv 42
 „ *dama*, *maura*, iv 42
 „ „ *mesopotamiæ*, iv 45
 „ (*Dama*) *mesopotamicus*,
 iv 45
 „ *davidianus*, iv 152
 „ *dejeani*, iv 82
 „ *devilleanus*, iv 107
 „ *dichotomus*, iv 186
 „ *dimorphe*, iv 93
 „ *duvaucelii*, iv 93
 „ *dybowski*, iv 112
 „ *dybowskii*, iv 112, 149
 „ *elaphoides*, iv 93
 „ *elaphus*, iv 117, 120, 125,
 133
 „ „ *albifrons*, iv 124
 „ „ *albus*, iv 124
 „ „ *atlanticus*, iv 122
 „ „ *barbarus*, iv 120
 „ (*Elaphus* *Blastocerus*)
campestris, iv 189
 „ „ (*Blastocerus*)
comosus, iv 189
 „ „ (*Blastocerus*)
paludosus, iv 187
 „ *elaphus bolivari*, iv 121
 „ (*Elaphus*) *canadensis*, iv
 129
 „ *elaphus canadensis*, iv 129
 „ „ *corsicanus*, iv 121
 „ „ *debilis*, iv 124
 „ (*Elaphus*) *elaphus*, iv 118
 „ *elaphus elaphus*, iv 122
 „ (*Elaphus* *Furcifer*) *anti-*
siensis, iv 196
 „ *elaphus germanicus*, iv 124
 „ „ *hippelaphus*, iv
 124
 „ „ *hispanicus*, iv 121
 „ „ *maral*, iv 126
 „ „ *minor*, iv 121
 „ „ *neglectus*, iv 124
 „ „ *saxonicus*, iv 124
 „ „ *scoticus*, iv 123
 „ „ *typicus*, iv 122
 „ „ *varius*, iv 124
 „ „ *visurgensis*, iv 124
 „ *eldi cornipes*, iv 104
 „ „ *eldi*, iv 102
 „ „ *frontalis*, iv 104
- Cervus* *eldi platyceros*, iv 104
 „ „ *siamensis*, iv 104
 „ „ *typicus*, iv 102
 „ *eldii*, iv 100
 „ *equinus*, iv 78
 „ *eucladoceros*, iv 94
 „ *euopis*, iv 107
 „ *eustephanus*, iv 136
 „ *frinianus*, iv 107
 „ (*Furcifer*) *antisimensis*, iv
 196
 „ *goudotii*, iv 173
 „ *gracilis*, iv 107
 „ *guettardi*, iv 239
 „ *gymnotis*, iv 173
 „ *hagenbecki*, iv 138
 „ *hamatus*, iii 230
 „ *hanglu*, iv 146
 „ (*Harana*) *wallichi*, iv 141
 „ *hastalis*, iv 246
 „ *hemionus*, iv 176
 „ *heterocerus*, iv 71
 „ *hippelaphus*, iv 66, 71
 „ (*Hippelaphus*) *aristotelis*,
 iv 71
 „ „ *axis*, iv 49
 „ „ *duvaucelli*, iv 94
 „ „ *equinus*, iv 78
 „ „ *frontalis*, iv 104
 „ „ *hippelaphus*, iv
 67
 „ „ *japonicus*, iv 107
 „ „ *kuhlii*, iv 61
 „ „ *leschenaulti*, iv
 71
 „ „ *mariannus*, iv 83
 „ „ *moluccensis*, iv
 65
 „ *hippelaphus moluccensis*,
 iv 66
 „ (*Hippelaphus*) *niger*, iv 71
 „ „ *peronii*, iv 64
 „ „ *philippinus*, iv 84
 „ *hippelaphus timoriensis*,
 iv 64, 65
 „ „ *typicus*, iv 67
 „ (*Hippelaphus*) *unicolor*,
 iv 71
 „ *hortulorum*, iv 112
 „ „ *hortulorum*, iv 114
 „ „ *kopschi*, iv 115
 „ „ *typicus*, iv 114
 „ *humboldtii*, iv 205
 „ *humilis*, iv 215
 „ (*Hyelaphus*) *calamianen-*
sis, iv 59

- Cervus* (*Hyelaphus*) *kuhli*, iv 62
 „ „ *porcinus*, iv 54, 55
 „ *hyemalis*, iv 107
 „ *ignotus*, iv 107
 „ *isubra*, iv 133
 „ *jarai*, iv 71
 „ *jarya*, iv 71
 „ *javanicus*, iv 268
 „ *joretianus*, iv 107
 „ *kansuensis*, iv 146
 „ *kopschi*, iv 115
 „ *kuhlii*, iv 61
 „ *labipes*, iv 83
 „ *lacrymosus*, iv 107
 „ *latipes*, iii 221
 „ *lepidus*, iv 150
 „ *leschenaultii*, iv 71
 „ *leucogaster*, iv 188
 „ *leucurus*, iv 162
 „ *lewisii*, iv 182
 „ *lobatus*, iv 234
 „ *luehdorfi*, iv 133
 „ *luehdorfi*, iv 133
 „ *lyratus*, iv 100
 „ *macneilli*, iv 145
 „ „ *kansuensis*, iv 146
 „ „ *macneilli*, iv 145
 „ *macrootis*, iv 176
 „ „ *montanus*, iv 178
 „ „ *var. californicus*, iv 179
 „ „ *var. columbianus*, iv 182
 „ *macrourus*, iv 161
 „ *major*, iv 129
 „ *malaccensis*, iv 78
 „ *manchuricus typicus*, iv 134
 „ *mandarinus*, iv 112
 „ *mantchuricus*, iv 110
 „ *mantschuricus major*, iv 112
 „ *maral*, iv 126
 „ „ *californica*, iv 133
 „ „ *canadensis*, iv 129
 „ „ *var. sibirica*, iv 134
 „ „ *var. songarica*, iv 136
 „ *mariannus*, iv 83, 84
 „ *mauricus*, iv 42
 „ (*Mazama*) *campestris*, iv 189
 „ „ *clavatus*, iv 155
 „ „ *leucurus*, iv 162
 „ „ *macrootis*, iv 176
- Cervus* (*Mazama*) *macrourus*, iv 161
 „ „ *memoralis*, iv 170
 „ „ *paludosus*, iv 187
 „ „ *virginianus*, iv 155
 „ *mediterraneus*, iv 121
 „ *melas*, iv 21
 „ *merriami*, iv 132
 „ *mesopotamicus*, iv 45
 „ *mexicanus*, iv 165
 „ *minor*, iv 55
 „ *moluccensis*, iv 65
 „ *moschatus*, iv 21
 „ *muntjac*, iv 11
 „ (*Muntjac*) *philippinus*, iv 84
 „ *muntjak*, iv 11
 „ *nannodes*, iv 133
 „ *memoralis*, iv 170
 „ *memorivagus*, iv 209
 „ *nepalensis*, iv 71
 „ *niger*, iv 71
 „ *nigricans*, iv 86
 „ *nippon*, iv 107
 „ „ *mantchuricus*, iv 110
 „ „ *nippon*, iv 108
 „ „ *typicus*, iv 108
 „ *nudipalpebra*, iv 49
 „ *occidentalis*, iv 132
 „ *paludosus*, iv 186
 „ *palustris*, iv 187
 „ (*Panolia*) *eldi*, iv 100
 „ *peronii*, iv 63
 „ *philippinus*, iv 84
 „ *platyceros*, iv 42
 „ (*Platyceros*) *dama*, iv 43
 „ *porcinus*, iv 54
 „ „ *annamiticus*, iv 58
 „ „ *hecki*, iv 58
 „ „ *porcinus*, iv 56
 „ *pseudaxis*, iv 112, 116
 „ (*Pseudaxis*) *hortulorum*, iv 112
 „ „ *sica*, iv 107
 „ „ *sika*, iv 108
 „ „ *taëvanus*, iv 111
 „ (*Pseudocervus*) *wallichi*, iv 141
 „ *pudu*, iv 215
 „ (*Pudu*) *humilis*, iv 215
 „ *pumilio*, iv 54
 „ *pusillus guineensis*, ii 169
 „ *pygargus*, ii 33, iv 226
 „ „ *mantschuricus*, iv 224

- Cervus* (*Rangifer*) *tarandus*, iv 239
 „ *ratwa*, iv 21
 „ *reevesii*, iv 27
 „ *rhenanus*, iv 124
 „ *richardsonii*, iv 182
 „ *roosevelti*, iv 132
 „ *ruceros*, iv 94
 „ (*Rucervus*) *duvauceli*, iv 93, 94
 „ „ *elaphoides*, iv 93
 „ „ *eldi*, iv 100
 „ „ *schomburgki*, iv 97
 „ *rufinus*, iv 208
 „ *rufus*, iv 67, 199
 „ (*Rusa*) *alfredi*, iv 62
 „ „ *aristotelis*, iv 71
 „ „ *axis zeylanicus*, iv 53
 „ „ *equinus*, iv 78
 „ „ *frontalis*, iv 104
 „ „ *hippelaphus*, iv 67, 71
 „ „ *kuhli*, iv 61
 „ „ *mariannus*, iv 83
 „ „ *nigricans*, iv 86
 „ „ *peronii*, iv 64
 „ „ *swinhoei*, iv 81
 „ „ *tavistocki*, iv 70
 „ „ *timoriensis*, iv 63
 „ „ *unicolor*, iv 70, 71
 „ „ „ *boninensis*, iv 88
 „ *rusa*, iv 67
 „ „ *moluccensis*, iv 65
 „ „ *timoriensis*, iv 64
 „ *sartorii*, iv 205
 „ *savannarum*, iv 174
 „ *schomburgki*, iv 97
 „ *sellatus*, iv 149
 „ *sibiricus*, iv 135, 244
 „ *sica*, iv 107
 „ „ *manchuricus*, iv 110
 „ „ *typicus*, iv 108
 „ *sika*, iv 107
 „ (*Sika*) *hortulorum*, iv 112
 „ „ *nippon*, iv 107, 108
 „ „ *sika*, iv 107
 „ „ *taëvanus*, iv 111
 „ „ *taiouanus*, iv 110
 „ *similis*, iv 185
 „ *simplicicornis*, iv 208
 „ *sing-sing*, ii 241
 „ *smithi*, iv 100
 „ *songaricus*, iv 136
 „ *spinosus*, iv 174
- Cervus* *steerii*, iv 86
 „ *strongyloceros*, iv 129
 „ (*Strongyloceros*) *canadensis*, iv 129
 „ „ *elaphus*, iv 118
 „ *stylocerus*, iv 21
 „ (*Stylocerus*) *aureus*, iv 24
 „ „ *latipes*, iii 221
 „ „ *moschatus*, iv 21
 „ „ *muntjak*, iv 12
 „ „ *philippinus*, iv 84
 „ „ *subcornutus*, iv 12
 „ (*Subulo*) *auritus*, iv 214
 „ „ *dolichurus*, iv 199
 „ „ *nanus*, iv 213
 „ „ *nemorivagus*, iv 209
 „ „ *rufus*, iv 199
 „ „ *simplicicornis*, iv 209
 „ „ „ *major*, iv 212
 „ „ *superciliaris*, iv 203
 „ „ *tschudii*, iv 212
 „ *swinhoei*, iv 81
 „ *syka*, iv 107
 „ *taëvanus*, iv 110
 „ *taioranus*, iv 111
 „ *taiouanus*, iv 110
 „ *tarandus*, iv 239, 243
 „ „ *arcticus*, iv 254
 „ „ *caribou*, iv 246
 „ „ *grölandicus*, iv 256
 „ (*Tarandus*) *platyrhynchus*, iv 243
 „ *tarandus schottingi*, iv 239
 „ „ *var. sylvestris*, iv 248
 „ *thoroldi*, iv 149
 „ *tibetanus*, iv 141
 „ *timoriensis*, iv 63
 „ „ *moluccensis*, iv 65
 „ „ *rusa*, iv 69
 „ „ *timoriensis*, iv 65
 „ „ *tunjuc*, iv 66
 „ *toltecus*, iv 167
 „ *tunjuc*, iv 67
 „ *unicolor*, iv 70
 „ „ *barandanus*, iv 85
 „ „ *basilanensis*, iv 85
 „ „ *boninensis*, iv 88
 „ „ *brookei*, iv 80

- Cervus unicolor dejeani*, iv 82
 „ „ *equinus*, iv 78
 „ „ *francianus*, iv 85
 „ „ *mariannus*, iv 83
 „ „ *nigellus*, iv 87
 „ „ *nigricans*, iv 86
 „ „ *philippinus*, iv 84
 „ „ *swinhoei*, iv 81
 „ „ *typicus*, iv 74
 „ „ *unicolor*, iv 74
 „ *vaginalis*, iv 21
 „ *virginianus*, iv 155
 „ *vulgaris*, iv 118
 „ „ *campestris*, iv 125
 „ „ *montanus*, iv 126
 „ *wachei*, iv 137
 „ *wallichi*, iv 141, 142, 146
 „ „ *affinis*, iv 142
 „ „ *wallichi*, iv 142
 „ *wapiti*, iv 129
 „ *xanthopygus*, iv 133
 „ „ *eustephanus*, iv 136
 „ *yarkandensis*, iv 139
 „ *yucatus*, iv 167
ceylonensis, *Cervus axis*, iv 53
Chamois, i 181
chanleri, *Redunca fulvorufula*, ii 223
chapmani, *Equus quagga*, v 23, 24
Chevrotain, *Indian*, iv 263
 „ *Water*, iv 296
chialtanensis, *Capra falconeri*, i 171
chickara, *Antilope*, iii 220
Chigetai, v 11
chilensis, *Cervus*, iv 193
 „ *Pudu*, iv 215
 „ *Xenelaphus*, iv 196
Chincheus, v 41
Chinese Water-Deer, iv 258
Chinkara, iii 52
chiriquensis, *Odocoileus virginianus*, iv 172
Chiru, iii 19
chiru, *Antilope*, iii 18
Chital, iv 50
Chitra, iv 50
Cherodes, iv 392
 „ *liberensis*, iv 393
choeropotamus, *Phascocoerus*, iv 351
choeropotamus, *Potamochoerus*, iv 350, 351
choeropotamus, *Potamochoerus*
choeropotamus, iv 352
Cheropsis, iv 392
 „ *liberensis*, iv 393
Choiropotamus, iv 348
 „ *africanus*, iv 349
 „ *pictus*, iv 359
chora, *Antilope*, iii 202
 „ *Strepsiceros strepsiceros*, iii 202
chousingha, iii 222
christyi, *Gazella*, iii 51
chrysochaetes, *Capricornis*, i 202
chrysogaster, *Moschus*, iv 5
chrysotrichos, *Ussa*, iv 89
Chwye-thamin, iv 102
Cinchacus, v 41
cineraceus, *Gazella*, iii 54
cinerea, *Antilope*, ii 204
cinereus, *Antilope (Næmorhedus)*, i 206
 „ *Ussa*, iv 89
cistaunicus, *Cervus (Capreolus)*, iv 221
citus, *Mazama simplicicornis*, iv 212
clarkei, *Ammodorcas*, iii 3
claudi, *Cephalophus*, ii 73
clavatus, *Cariacus*, iv 169
 „ *Cervus*, iv 155
Coassus, iv 198
 „ *auritus*, iv 214
 „ *humilis*, iv 215
 „ *inornatus*, iv 199
 „ *nemorivagus*, iv 209
 „ *rufinus*, iv 208
 „ *rufus*, iv 199
 „ *simplicicornis*, iv 209
 „ *simplicicornis*, *var. mexianæ*, iv 211
 „ *superciliaris*, iv 203
 „ *toltecus*, iv 167
 „ *whitelyi*, iv 212
Coba defassa, ii 232
Cobus, ii 225
 „ (*Adenota*) *leucotis*, ii 267
 „ „ *thomasi*, ii 264
 „ *coba nigroscapulatus*, ii 265
 „ „ *pousarguesi*, ii 260
 „ „ *thomasi*, ii 264
 „ „ *typicus*, ii 256
 „ *crawshayi*, ii 244
 „ *defassa crawshayi*, ii 244
 „ „ *harnieri*, ii 234
 „ „ *matschiei*, ii 234

- Cobus defassa penricei, ii 245
 „ „ sing-sing, ii 242
 „ „ tjæderi, ii 235
 „ „ typicus, ii 238
 „ „ ugandæ, ii 240
 „ „ unctuosus, ii 242
 „ defassus, ii 232
 „ ellipsiprymnus, ii 227
 „ „ adolfi-frederici, ii 235
 „ harnieri, ii 234
 „ hunteri, ii 46
 „ leche, ii 247
 „ lechee, ii 247
 „ lechi, ii 247
 „ lechwe, ii 247
 „ leechi, ii 247
 „ leucotis, ii 267
 „ loderi, ii 260
 „ maria, ii 251
 „ mariæ, ii 251
 „ nigricans, ii 258
 „ nigroscapulatus, ii 265
 „ onctuosus, ii 242
 „ penricei, ii 245
 „ robertsi, ii 249
 „ senganus, ii 269
 „ sing-sing, ii 242
 „ smithemani, ii 249
 „ smithemanni, ii 249
 „ thomasi, ii 264
 „ unctuosus, ii 242
 „ „ defassa, ii 238
 „ vardoni, ii 268
 „ „ loderi, ii 260
 „ „ senganus, ii 269
 „ „ typicus, ii 269
 „ „ vaughani, ii 265
 Coelodonta, v 51
 „ „ sinus, v 56
 cœrulescens, Antilope, iv 204
 cokei, Bubalis, ii 13, v 101
 „ „ cokei, ii 15
 colini, Oreas, iii 216
 collium, Ovis, i 109
 collium, Ovis ammon, v 98
 colombertinus, Sambar, iv 91
 conlonicus, Raphicerus sharpei,
 ii 155
 columbæ, Alces alces, iv 236
 columbiæ, Oreamnos americanus,
 i 220
 columbiana, Capra, i 218
 „ Mazama, iv 182
 columbianus, Odocoileus, iv 182
 „ „ columbi-
 anus, iv 183
 columbianus, Oreamnos monta-
 nus, i 220
 columbicus, Odocoileus virgini-
 anus, iv 172
 Colus, iii 13
 „ saiga, iii, 15
 „ tataricus, iii 15
 colus, Cemas, iii 14
 combalbertinus, Sambar, iv 91
 comosus, Cervus (Elaphus Blasto-
 cerus), iv 189
 concolor, Moschus moschiferus,
 iv 5
 concticus, Cephalophus nyasæ, ii
 104
 „ Potamochærus porcus,
 iv 361
 congoënsis, Giraffa cameloparda-
 lis, iii 253
 congolanus, Taurotragus derbi-
 anus, iii 219
 Connochætæ, ii 48, v 105
 „ albojubatus, ii 58
 „ „ henrici, v 106
 „ „ lorenzi, v 106
 „ „ schulzi, v 106
 „ gnu, ii 50
 „ gorgon, ii 54
 „ hecki, ii 57
 „ johnstoni, ii 57
 „ taurinus, ii 54, v 105
 „ „ albojubatus,
 ii 58
 „ „ cooksoni, v
 105
 „ „ hecki, ii 57
 „ „ johnstoni, ii 57
 „ „ (vel john-
 stoni) rufigianus,
 ii 57
 „ taurinus mearnsi, v
 106
 „ „ taurinus, ii 56
 „ „ typicus, ii 55
 „ taurius, ii 55
 connochætæ, Bos, ii 51
 consobrinus, Sikaïllus, iv 107
 constrictus, Hippopotamus am-
 phibius, iv 391
 cooksoni, Connochætæ taurinus,
 v 105
 cora, Antilope, iii 57
 cordeauxi, Madoqua, ii 182
 corinna, Antilope, iii 71
 „ Gazella, iii 54
 Corinne, iii 61

- cornipes, *Cervus eldi*, iv 104
 cornutus, *Capricornis*, i 202
 coronata, *Alces lobata*, iv 231
 „ *Sylvicapra*, ii 115
 coronatus, *Cephalophus grimmi*,
 ii 114
 „ *Cervus*, iv 230
 corrigum, *Damaliscus*, ii 40
 corsicanus, *Cervus elaphus*, iv
 121
 corsico-sardinensis, *Ovis musi-*
 mon, v 97
 corteanus, *Ussa*, iv 89
 costaricensis, *Odocoileus virgini-*
 anus, iv 170
 cottoni, *Bos caffer*, i 60
 „ *Diceros simus*, v 58
 „ *Dorcatherium aquaticum*,
 iv 298
 „ *Elephas africanus*, v 87
 „ *Giraffa camelopardalis*,
 iii 247
 „ *Kobus defassa*, ii 228
 „ *Ourebia*, ii 144
 „ *Redunca redunca*, ii 217
 „ *Rhinoceros simus*, v 56
 „ *Tragelaphus scriptus*, iii
 167
 couesi, *Odocoileus virginianus*,
 iv 164
 cowani, *Ovis canadensis*, i 120
 coxi, *Cephalophus*, ii 64
 crassicornis, *Ussa*, iv 89
 crassum, *Tagassu angulatum*, iv
 385
 crassus, *Dicotyles angulatus*, iv
 385
 crawshaii, *Equus quagga*, v 27
 crawshayi, *Dendrohyrax*, v 79
 „ *Equus quagga*, v 27
 „ *Kobus defassa*, ii 244
 „ *Procavia* (*Dendrohy-*
 rax), v 79
 Creagroceros, iv 193
 „ *antisiensis*, iv 196
 „ *chilensis*, iv 194
 cremnobates, *Ovis canadensis*, i
 115
 cretensis, *Capra hircus*, i 161
 crinifrons, *Muntiacus*, iv 33
 crispa, *Antilope* (*Caprina*), i 209
 crispus, *Capricornis* (*Capricornu-*
 lus), i 200
 „ „ *crispus*, i 200
 cristatus, *Sus*, iv 318
 „ „ *cristatus*, iv 319
 crooki, *Odocoileus columbianus*
 iv 185
 crossei, *Rhinoceros*, v 51
 crossii, *Ceratorhinus*, v 50
 crusnigrum, *Dicotyles angulatus*,
 iv 385
 cucullatus, *Rhinoceros bicornis*,
 v 55
 culionensis, *Cervus*, iv 59
 cuningamei, *Equus quagga*, v 28
 curvicornis, *Sambar*, iv 91
 curvostylis, *Muntiacus muntjak*,
 iv 19
 cuvieri, *Antilope*, iii 32
 „ *Cephalophus rufilatus*, ii
 87
 „ *Gazella*, iii 54
 „ *Leptoceros*, iii 68
 cycloceros, *Ovis*, i 86
 „ „ *vignei*, i 88
 „ *Sika*, iv 107
 cyclorhinus, *Cervus*, iv 107
 cyclotis, *Elephas africanus*, v 87
 cylindricornis, *Capra caucasica*, i
 131
 „ *Rangifer tarandus*,
 iv 241
 cypria, *Ovis*, i 79
 cyprius, *Ovis*, i 79
 Dactyloceros, iv 40
 dæmonis, *Potamochoerus chæro-*
 potamus, iv 354
 dæmon, *Procavia*, v 68
 dailliardianus, *Ussa*, iv 89
 Daim, iv 43
 daima, *Cervus*, iv 42
 daimius, *Sikaillus*, iv 107
 dalai-lamæ, *Ovis*, i 98
 dalli, *Ovis canadensis*, i 118
 Dama, iii 85, iv 40, 154
 „ *acuticornis*, iv 100
 „ *dama*, iv 42, 43
 „ *lichtensteini*, iv 165
 „ *mesopotamica*, iv 45
 „ *platyceros*, iv 42
 „ „ *albus*, iv 43
 „ „ *niger*, iv 43
 „ „ *varius*, iv 43
 „ *rothschildi*, iv 171
 „ *vulgaris*, iv 43
 dama, *Dama*, iv 42, 43
 „ *Gazella dama*, iii 104
 „ „ (*Nanger*), iii 102
 „ *Tragelaphus scriptus*, iii
 170

- Damalis*, ii 3, 32
 „ *albifrons*, ii 35
 „ (*Boselaphus*) *canna*, iii 290
 „ „ *oreas*, iii 209
 „ *bubalis*, ii 5
 „ *caama*, ii 25
 „ *canna*, iii 209
 „ *hunteri*, ii 46
 „ *jimela*, ii 44
 „ *korrigum*, ii 39
 „ *lunata*, ii 37
 „ *oreas*, iii 209
 „ *picta*, iii 226
 „ (*Portax*) *risia*, iii 226
 „ *pygarga*, ii 33
 „ *risia*, iii 226
 „ *senegalensis*, ii 39, 42, 44
 „ *strepsiceros*, iii 197
 „ (*Strepsiceros*) *capensis*, iii 198
 „ „ *strepsiceros*, iii 197
 „ *tiang*, ii 42
 „ *tiang-riel*, ii 42
 „ *zebra*, ii 89
Damaliscus, ii 32, v 103
 „ *albifrons*, ii 35
 „ *corrigum*, ii 40
 „ „ *jonesi*, ii 44
 „ „ *phalius*, ii 46
 „ „ *tiang*, ii 43
 „ *hunteri*, ii 46
 „ *jimela*, ii 44
 „ *koba lyra*, v 103
 „ *korrigum*, ii 39, 40, v 103
 „ „ *eurus*, v 105
 „ „ *jimela*, ii 44, 45, v 104
 „ „ *jonesi*, ii 44
 „ „ *korrigum*, ii 41
 „ „ *lyra*, v 103
 „ „ *phalius*, ii 46
 „ „ *purpurescens*, v 104
 „ „ *selousi*, ii 42
 „ „ *tiang*, ii 42 43
 „ „ *topi*, v 104
 „ „ *ugandæ*, v 104
 „ *lunatus*, ii 37
 „ *phalius*, ii 46
 „ *pygarga*, ii 34
 „ *pygargus*, ii 33, 34
 „ *tiang*, ii 42
damarensis, *Madoqua damarensis*, ii 184
damarensis, *Madoqua* (*Rhyncho-*
tragus, ii 184
dammah, *Oryx algazel*, iii 129
danielli, *Equus quagga*, v 21
d'Antis, *Cerf*, iv 196
darwini, *Ovis*, i 97
Dassie, v 59
Dasychærus, iv 307
 „ *celebensis*, iv 331
 „ *verrucosus*, iv 335, 336, 337
dauricus, *Ovis argali*, i 97
dauvergnei, *Capra sibirica*, i 145, 150
Dauw, v 22
 davidianus, *Elaphurus*, iv 152
dawsoni, *Rangifer tarandus*, iv 251
debilis, *Cervus elaphus*, iv 124
Decula, iii 154
 „ *Tragelaphus scriptus*, iii 159
Deer, *Barking*, iv 14
 „ *Black-tailed*, iv 182
 „ *Brow-antlered*, iv 100
 „ *Carpathian*, iv 125
 „ *Chinese Water-*, iv 258
 „ *Eld's*, iv 100
 „ *Fallow*, iv 43
 „ *Hog-*, iv 56
 „ *Japanese*, iv 108
 „ *Marsh-*, iv 187
 „ *Mouse-*, iv 263
 „ *Mule-*, iv 177
 „ *Musk-*, iv 4
 „ *Pampas-*, iv 189
 „ *Père David's*, iv 152
 „ *Persian Fallow*, iv 45
 „ *Red*, iv 118
 „ *Rib-faced*, iv 14
 „ *Spotted* iv 50
 „ *Swamp-*, iv 94
 „ *Virginian*, iv 156
 „ *White-tailed*, iv 156
Defassa, ii 233
defassa, *Kobus*, ii 232, v 110
 „ „ *defassa*, ii 238
defassus, *Cobus*, ii 232
defriesi, *Cephalophus nyasæ*, ii 104
deyardinius, *Sikaïllus*, iv 107
dejeani, *Cervus unicolor*, iv 82
delamerei, *Phacochoerus æthiopi-*
cus, iv 371
 „ *Tragelaphus scriptus*, iii 171

- Dendrohyrax*, v 75
 „ *arboreus*, v 76
 „ *bakeri*, v 69
 „ *bettoni*, v 78
 „ *blainvillii*, v 69
 „ *crawshayi*, v 79
 „ „ *laikipia*, v 79
 „ *dorsalis*, v 77
 „ *emini*, v 76
 „ *grayi*, v 77
 „ *neumanni*, v 77
 „ *scheelei*, v 75
 „ *stuhlmanni*, v 77
 „ *terricola*, v 78
 „ *validus*, v 75
depressicornis, *Bos* (*Bubalus*), i 48
 „ „ *depressicornis*,
 i 49
derbianus, *Taurotragus*, iii 216,
 219
 „ „ *derbianus*, iii 217
derbii, *Oreas*, iii 219
deserti, *Cephalophus grimmii*, v
 108
deserticola, *Neotragus moschatus*,
 ii 162
devilleanus, *Cervus*, iv 107
Dhero, iii 79, 80
dianæ, *Kobus defassa*, ii 238
 „ *Tragelaphus scriptus*, iii
 168
Dibatag, iii 3
Dicerorhinus, v 49
 „ *sumatrensis*, v 50
 „ „ *lasiotis*, v 51
Diceros, v 51
 „ *bicornis*, v 54
 „ „ *somaliensis*, v 55
 „ *simus*, v 56
 „ „ *cottoni*, v 58
dichotoma, *Mazama*, iv 187
dichotomus, *Blastocerus*, iv 186,
 187
dickii, *Odocoileus*, iv 194
Dicotyle, iv 374
Dicotyles, iv 374
 „ (subgenus), iv 375
 „ *albirostris*, iv 376
 „ *angulatus*, iv 383
 „ *angulatus angulatus*, iv
 383
 „ „ *crassus*, iv 385
 „ „ *crusnigrum*, iv 385
 „ „ *humeralis*, iv 384
 „ „ *nanus*, iv 386
 „ „ *sonoriensis*, iv 384
Dicotyles angulatus yucatanensis,
 iv 385
 „ *labiatus*, iv 375
 „ *pecari*, iv 375
 „ (*Pecari*) *angulatus*, iv
 383
 „ *pecari pecari*, iv 376
 „ „ *ringens*, iv 378
 „ „ *spiradens*, iv 378
 „ (*Pecari*) *tajacu*, iv 379
 „ *tajacu*, iv 379
 „ „ *angulatus*, iv 383
 „ „ *niger*, iv 382
 „ „ *sonoriensis*, iv 384
 „ „ *tajacu*, iv 380
 „ „ *torvus*, iv 382
 „ *torquatus*, iv 379, 382
Dicotylus, iv 374
Dicranoceros, iii 231
Dicranocerus, iii 230
diehli, *Bos caffer*, v 95
dieseneri, *Eudorcas thomsoni*, iii
 84
digglei, *Bubalis tora*, ii 11
Dik-dik, ii 175
dimorpha, *Rusa*, iv 94
dimorphe, *Cervus*, iv 93
dinniki, *Capra severtzowi*, i 137
Dinochærus, iv 365
Diproctodon, iv 392
Diprotodon, iv 392
 „ *liberiensis*, iv 393
discolor, *Bibos*, i 30
Ditomeadon, iv 392
 „ *liberiensis*, iv 393
dodingæ, *Tragelaphus cottoni*, iii
 167
dolgopolovi, *Ovis arcar*, i 91
Dolichohippus, v 15
 „ „ *grevyi*, v 18
dolichorhinus, *Sika*, iv 107
dolichurus, *Cervus* (*Subulo*), iv
 199
donaldsoni, *Cervicapra redunca*, ii
 217
dongilanensis, *Eudorcas thom-*
soni, iii 84
dongolanus, *Hyrax*, v 64
Doratoceros, iii 207, iv 210
 „ *triangularis*, iii 210
Dorcas, *Gazelle*, iii 72
Dorcas, iii 40
 „ *dorcas*, iii 72
dorcas, *Antilope*, ii 33, iii 57
 „ *Capreolus*, iv 219
 „ *Gazella*, iii 54, 70, 72

- dorcas, *Gazella dorcas*, iii 73
 " *Rupicapra*, i 180
Dorcatherium, iv 295
 " *aquaticum*, iv 295
 " " *aquaticum*, iv 296
 " " *batesi*, iv 297
 " " *cottoni*, iv 298
 " " *typicum*, iv 296
Dorcatragus, ii 195
 " *megalotis*, ii 196
Dorcelaphus, iv 154
 " *americanus*, iv 156
 " " *savannarum*, iv 174
 " *campestris*, iv 189
 " *columbianus*, iv 182
 " *couesi*, iv 164
 " *crooki*, iv 185
 " *hemionus*, iv 177
 " " *eremicus*, iv 180
 " *macrotis*, iv 176
 " *macrurus*, iv 161
 (*Dorcelaphus*), *Mazama*, iv 175
Dorcelaphus paludosus, iv 187
 " *texanus*, iv 163
 " *virginianus*, iv 155
 " " *macrourus*, iv 161
Dorcotragus, ii 195
 " *megalotis*, ii 195
doria, *Antilope*, ii 89
doriae, *Cephalophus*, ii 89, 90
dorsalis, *Cephalophus*, ii 80
 " *orientalis*, *Cephalophus*, v 106
 " *Procavia* (*Dendrohyrax*), v 77
dorsata, *Antilope*, iii 110
 " *Mazama*, i 218
Doryceros, iv 198
 " *nemorivagus*, iv 209
 " *tshudii*, iv 212
Dow's Tapir, v 46
dowi, *Tapirus* (*Tapirella*), v 46
Dromedarius, iv 301
dromedarius, *Camelus*, iv 300
dubius, *Hippocamelus*, iv 193
dugenneanus, *Sika*, iv 107
Duiker, *Jentink's*, ii 67
 " *Natal*, ii 68
 " *Yellow-backed*, ii 64
Duiker-bok, ii 108
duvauceli, *Antilope*, i 203
duvauceli, *Cervus* (*Rucervus*), iv 93
duvancelii, *Cervus*, iv 93
duvaucellii, *Axis*, iv 93
dybowski, *Cervus*, iv 112
dybowski, *Cervus*, iv 112, 149
Dycoteles, iv 374
 " *labiatus*, iv 376
 " *torquatus*, iv 379
Dycotyles, iv 374
Eastern Tur, i 132
ecuadorensis, *Tapirus*, v 41
edentatus, *Phascocoerus*, iv 366, 371
Edmi, iii 54
edwardsi, *Potamochoerus*, iv 349
edwardsii, *Næmoredus*, i 190
Egocerus, iii 131
 " *equinus*, iii 135
 " " *bakeri*, iii 139
 " " *gambianus*, iii 140
 " " *langheldi*, iii 138
 " " *scharicus*, iii 139
Eland, iii 210
Elaphoceros, iv 106
 " *mantchuricus*, iv 110
 " *sika*, iv 107
 " *taëvanus*, iv 111
Elaphodus, iv 34
 " *cephalophus*, iv 34
 " " *cephalophus*, iv 35
 " " *fociensis*, iv 38
 " " *ichangensis*, iv 39
 " " *michianus*, iv 36
 " *michianus*, iv 36
elaphoides, *Cervus*, iv 93
Elaphurus, iv 151
 " *davidianus*, iv 152
Elaphus, iv 116
 " *canadensis*, iv 129
 " *occidentalis*, iv 132
elaphus, *Cervus*, iv 117, 125, 133
 " " *elaphus*, iv 122
Elasmognathus, v 44
 " *bairdii*, v 45
 " *dowi*, v 46
Eld's Deer, iv 100
eldi, *Cervus eldi*, iv 102
 " " (*Rucervus*), iv 100
eldii, *Cervus*, iv 100
eldomæ, *Tragelaphus scriptus*, iii 172

- elegans*, *Melanaxis*, iv 89
 „ *Sika*, iv 107
Eleotragus, ii 203
 „ *arundinaceus*, ii 204,
 214, 221
 „ *bohor*, ii 214
 „ *capreolus*, ii 200
 „ *eleotragus*, ii 205, 221
 „ *isabellinus*, ii 204
 „ (*Pelea*) *capreolus*, ii
 200
 „ *redunca*, ii 221
 „ *reduncus*, ii 204, 211,
 214
 „ *vardoni*, ii 268
 „ *villosus*, ii 200
eleotragus, *Antilope*, ii 203
Elephant, *African*, v 85
 „ *Indian*, v 82
Elephas, v 80
 „ (subgenus), v 81
 „ *africanus*, v 85
 „ „ *capensis*, v 86
 „ „ *cavendishi*, v 89
 „ „ *cottoni*, v 87
 „ „ *cyclotis*, v 87
 „ „ *knochenhaueri*,
 v 88
 „ „ *knochenhaureri*,
 v 88
 „ „ *orleansi*, v 90
 „ „ *oxyotis*, v 89
 „ „ *peeli*, v 88
 „ „ *pumilio*, v 87
 „ „ *rothschildi*, v 91
 „ „ *selousi*, v 87
 „ „ *toxotis*, v 86
 „ „ *typicus*, v 86
 „ *asiaticus*, v 82
 „ *capensis*, v 86
 „ *indicus*, v 81
 „ „ *bengalensis*, v 82
 „ „ *zeylanicus*, v 83
 „ (*Loxodon*) *africanus*, v
 86
 „ (*Loxodonta*) *africanus*, v
 85, 86
 „ *maximus*, v 81
 „ „ *hirsutus*, v 84
 „ „ *maximus*, v 82
 „ „ *sumatranus*, v
 83
 „ „ *zeylanicus*, v 83
 „ *sumatranus*, v 83
Elk, iv 232
ellipsiprymnus, *Kobus*, ii 226
ellipticus, *Sika*, iv 107
elorzanus, *Ussa*, iv 89
elypsiprymnus, *Antilope*, ii 227
emini, *Cephalophus*, ii 83
 „ *Procavia* (*Dendrohyrax*), v
 76
enigmaticus, *Tapirus*, v 44
ensicornis, *Antilope*, iii 127
Epieuryceros, iv 186
equina, *Antilope*, iii 134
 „ *Rusa*, iv 78
equinoctialis, *Bubalus caffer*, i 58
equinus, *Cervus unicolor*, iv 78
 „ *Hippotragus*, iii 134
 „ „ *equinus*, iii 136
equioides, *Asinus*, v 9
Equus, v 4
 „ (subgenus), v 6
 „ *africanus*, v 38
 „ *annectens*, v 27
 „ *antiquorum*, v 23
 „ *asinus*, v 36
 „ „ *africanus*, v 37, 38
 „ „ *var. africanus*, v 38
 „ (*Asinus*) *asinus*, v 36, 37
 „ *asinus asinus*, v 37
 „ (*Asinus*) *hemionus*, v 11
 „ „ *hemippus*, v 14
 „ „ *onager*, v 12
 „ *asinus somalicus*, v 38
 „ „ *var. somalicus*, v 38
 „ „ *somaliensis*, v 38
 „ „ *tæniopus*, v 38
 „ (*Asinus*) *zebra*, v 35
 „ *bisuleus*, iv 193
 „ *böhmi*, v 26
 „ *burchelli annectans*, v 27
 „ „ *antiquorum*, v 23
 „ „ *boehmi*, v 26
 „ „ *chapmani*, v 24
 „ „ *crawshaii*, v 27
 „ „ *crawshayi*, v 27
 „ „ *granti*, v 30
 „ „ *jallæ*, v 30
 „ „ *maria*, v 27
 „ „ *paucistriatus*, v 22
 „ „ *pococki*, v 23
 „ „ *selousi*, v 25
 „ „ *transvaalensis*, v
 25
 „ „ *typicus*, v 22
 „ „ *wahlbergi*, v 24
 „ „ *zambezienensis*, v 26
 „ *burchellii*, v 21
 „ *caballus*, v 6
 „ „ *caballus*, v 6

Equus caballus przewalskii, v 7
 „ „ *typicus*, v 6
 „ *castaneus*, v 13
 „ *chapmani*, v 23
 „ „ *antiquorum*, v 23
 „ „ *boehmi*, v 26
 „ „ *crawshayi*, v 27
 „ „ *granti*, v 30
 „ „ *jallæ*, v 30
 „ „ *selousi*, v 25
 „ „ *transvaalensis*, v 25
 „ „ *wahlbergi*, v 24
 „ „ *zambeziensis*, v 26
 „ *chapmanni mariæ*, v 27
 „ *crawshayi*, v 27
 „ (*Dolichohippus*) *grevyi*, v 17
 „ *equioides*, v 9
 „ *ferus*, v 6, 7
 „ *festivus*, v 21
 „ *foai*, v 32
 „ *gmelini*, v 6
 „ *goldfinchi*, v 30
 „ *granti*, v 30
 „ *grevyi*, v 17
 „ „ *berberensis*, v 18
 „ „ *faurei*, v 17
 „ „ *grevyi*, v 18
 „ *hagenbecki*, v 7
 „ *hamar*, v 14
 „ *hartmannæ*, v 36
 „ *hemionus*, v 9, 11, 12
 „ „ *hemionus*, v 11
 „ „ *var. indicus*, v 12
 „ „ *kiang*, v 9
 „ „ *var. typicus*, v 11
 „ *hemippus*, v 14
 „ (*Hippotigris*) *foai*, v 32
 „ „ *quagga*, v 19, 20
 „ „ *zebra*, v 34
 „ *indica*, v 34
 „ *indicus*, v 12
 „ *jallæ*, v 30
 „ *johnstoni*, iii 258
 „ *khur*, v 12
 „ *kiang*, v 8
 „ (*Ludolphozecora*) *grevyi*, v 18
 „ *montanus*, v 21, 35
 „ *muansæ*, v 30
 „ *nubianus somalicus*, v 38
 „ *onager*, v 12
 „ „ *castaneus*, v 13
 „ „ *hemippus*, v 14
 „ „ *indicus*, v 12

Equus onager onager, v 14
 „ „ *typicus*, v 14
 „ *penricei*, v 36
 „ *quagga*, v 19
 „ *quaccha*, v 19
 „ *quagga*, v 19
 „ „ *annectens*, v 27
 „ „ *antiquorum*, v 22, 23
 „ „ *boehmi*, v 26
 „ „ *burchelli*, v 21, 22
 „ „ *chapmani*, v 23, 24
 „ „ *crawshayi*, v 27
 „ „ *crawshayi*, v 27
 „ „ *cunninghamei*, v 28
 „ „ *danielli*, v 21
 „ „ *granti*, v 30
 „ „ *greyi*, v 21
 „ „ *jallæ*, v 30
 „ „ *lorenzi*, v 21
 „ „ *mariæ*, v 27
 „ „ *muansæ*, v 30
 „ „ *pococki*, v 23
 „ „ *quagga*, v 20, 21
 „ „ *selousi*, v 25
 „ „ *trouessarti*, v 21
 „ „ *transvaalensis*, v 25
 „ „ *wahlbergi*, v 24
 „ „ *zambesiensis*, v 26
 „ *somalicus*, v 38
 „ *somaliensis*, v 38
 „ *tæniopus*, v 38
 „ *tigrinus*, v 27
 „ „ *selousi*, v 25
 „ *wardi*, v 32
 „ *zebra frederici*, v 35
 „ „ *hartmannæ*, v 36
 „ „ *penricei*, v 36
 „ „ *zebra*, v 35
 „ *zebroides*, v 21
eremica, *Mazama hemionus*, iv 180
eremicus, *Odocoileus hemionus*, iv 180
erikssoni, *Okapia*, iii 259
erlangeri, *Gazella arabica*, iii 59
 „ „ *soemmerringi*, iii 99
 „ *Madoqua*, ii 182
 „ *Procavia*, v 62
errardianus, *Sambar*, iv 92
erskinei, *Ovis orientalis*, i 82
erythropygius, *Capricornis*, i 202
Eucervus, iv 116, 154
 „ *columbianus*, iv 182

- Eucervus elaphus*, iv 118
 „ *hemionus*, iv 177
 „ *macrotis*, iv 176
 „ *pusillus*, iv 182
euchore, Antilope, iii 109
eucladoceros, *Cervus*, iv 94
Eudorcas, iii 40
 „ *baringoënsis*, iii 84
 „ *bergeri*, iii 84
 „ *biedermanni*, iii 84
 „ *langheldi*, iii 84
 „ *manyaræ*, iii 84
 „ *mundorosica*, iii 84
 „ *nakuroënsis*, iii 84
 „ *ndjiriensis*, iii 84
 „ *ruwanæ*, iii 84
 „ *sabakiensis*, iii 84
 „ *schillingsi*, iii 84
 „ *thomsoni*, iii 83
 „ „ *arushæ*, iii 84
 „ „ *behni*, iii 84
 „ „ *bergerinæ*, iii 84
 „ „ *dieseneri*, iii 84
 „ „ *dongilanensis*,
 iii 84
 „ „ *macrocephala*,
 iii 84
 „ „ *märwitzi*, iii 84
 „ *wembaerensis*, iii 84
Euelephas, v 81
Euhyrax, v 58
Euhys, iv 307
 „ *barbatus*, iv 339
euopis, *Cervus*, iv 107
Eureodon, iv 365
Eurhinoceros, v 46
europæa, *Ibex*, i 141
 „ *Rupicapra*, i 180
europæus, *Alces*, iv 230
 „ *Bison*, i 35
 „ *Capreolus*, iv 219
 „ *Sus*, iv 310
eurus, *Damaliscus korrigum*, v
 105
Euryceros, iii 203
 „ *angasi*, iii 180
 „ *euryceros*, iii 203
euryceros, Antilope, iii 203
Eurycerus (*Hydrotragus*) *spekii*,
 iii 185
 „ *spekii*, iii 186
eurycerus, *Boöcerus*, iii 203, 204
 „ „ *eurycerus*, iii 205
eustephanus, *Cervus*, iv 136
evansi, *Urotragus*, i 207
everetti, *Tragulus kanchil*, iv 291
excelsifrons, *Rangifer tarandus*, iv
 253
excelsus, *Strepsiceros*, iii 198
fæsula, *Rupicapra rupicapra*, i 182
falconeri, *Capra*, i 161, 166
 „ „ *falconeri*, i 163
Fallow Deer, iv 43
 „ „ *Persian*, iv 45
fannini, *Ovis canadensis*, i 119
fargesianus, *Kemas*, i 210
fasciata, *Capra sibirica*, i 144
fasciatus, *Gorgon*, ii 54
 „ *Moschus moschiferus*,
 iv 5
 „ *Sus*, iv 310
 „ *Tragelaphus scriptus*, iii
 163
faurei, *Equus grevyi*, v 17
fæa, *Muntiacus*, iv 32
fennicus, *Rangifer tarandus*, iv 243
(fera), *Llama pacos*, iv 303
fergusoni, *Bos depressicornis*, i 50
ferruginea, *Procavia*, v 66
ferrugineus, *Hyrax*, v 65, 66
ferus, *Equus*, v 6, 7
 „ *Sus scrofa*, iv 313
festivus, *Equus*, v 21
flippii, *Capra sibirica*, i 152
firghanicus, *Capreolus pygargus*,
 iv 227
Five-horned Giraffe, iii 248
flavescens, *Cephalophus grimmi*,
 ii 112
flavicollis, *Tragulus javanicus*, iv
 275
floresianus, *Hippelaphus*, iv 92
 „ *Sus vittatus*, iv 325
floweri, *Rhinoceros*, v 49
Foa's Zebra, v 33
foai, *Equus (Hippotigris)*, v 32
focalinus, *Tragulus*, iv 292
fociensis, *Elaphodus cephalophus*,
 iv 38
forfex, Antilope, ii 253
Formosan Serow, i 201
 „ *Sika*, iv 111
formosus, *Tragulus stanleyanus*,
 iv 267, 924
fortidens, *Rangifer tarandus*, iv 251
fossilis, *Capreolus*, iv 219
fossor, *Phacochærus æthiopicus*,
 iv 372
Four-Horned Antelope, iii 222
francianus, *Cervus unicolor*, iv 85
frederici, Antilope, ii 94

- frederici*, *Equus zebra*, v 35
frenatus, *Sus*, iv 333
frinianus, *Cervus*, iv 107
frommi, *Procavia*, v 74
frontalis, *Bos*, i 15
 " *Cervus eldi*, iv 104
 " *Panolia*, iv 100
fulvicollis, *Tragulus kanchil*, iv 284
fulviventer, *Tragulus kanchil*, iv 285
fulvo-ochraceus, *Tragelaphus decula*, iii 159
fulvo-rufescens, *Antilope*, ii 147
fulvorufula, *Redunca*, ii 220, 221
 " " *fulvorufula*, ii 222
fulvus, *Bos bubalis*, i 45
furcata, *Mazama*, iv 187
Furcifer, iv 192
 " *antisensis*, iv 196
 " *antisensis*, iv 194
 " *campestris*, iv 189
 " *chilensis*, iv 194, 196
 " *huamel*, iv 194
furcifer, *Antilope*, iii 231
 " *Tarandus*, iv 240
fuscatus, *Tragulus*, iv 268
fuscifrons, *Gazella*, iii 49
fusicornis, *Bibos*, i 30

Gacella, iii 28
 " *bennetti*, iii 51
 " *dorcas*, iii 72
 " *granti*, iii 86
 " *pelzelni*, iii 79
 " *picticaudata*, iii 30
 " *soemmerringi*, iii 97
 " *spekei*, iii 80
 " *thomsoni*, iii 83
gaillardi, *Ovis canadensis*, i 116
Gainda, v 48
galeanus, *Urotragus*, i 210
gallarum, *Oryx beisa*, iii 124
 " *Ourebia*, ii 144
gambianus, *Hippotragus equinus*, iii 140
garcianus, *Ussa*, iv 89
gargantua, *Sus barbatus*, iv 341
gariensis, *Bos caffer*, i 55
Gaur, i 15
gaur, *Bos*, i 14
Gauribos, i 13
 " *brachyrhinus*, i 30
 " *laosensis*, i 30
 " *mekongensis*, i 30

Gauribos sylvanus, i 30
gaurus, *Bos (Bibos)*, i 13
 " " *gaurus*, i 18
Gavæus, i 13
 " *frontalis*, i 15
 " *gaurus*, i 15
 " *sondaicus*, i 22
gavæus, *Bos*, i 14
Gazella, iii 28, v 111
 " (subgenus), i 40, iii 40
 " (sp. non det.), i 76
 " *albifrons*, ii 35
 " *albonotata*, iii 82
 " *arabica*, iii 57, 58
 " " *arabica*, iii 59
 " " *erlangeri*, iii 59
 " " *rueppelli*, iii 59
 " " *typica*, iii 59
 " *bennetti*, iii 49, 50, 59
 " *bennettii*, iii 51
 " *christyi*, iii 51
 " *cineraceus*, iii 54
 " *cora*, iii 57
 " *corinna*, iii 54
 " *cuvieri*, iii 54
 " *dama*, iii 102, 107
 " " *dama*, iii 104
 " " *mhorr*, iii 104, 105
 " " *permista*, iii 106
 " " *ruficollis*, iii 106, 107
 " " *typica*, iii 104
 " *dorcas*, iii 54, 68, 70, 72, 76
 " " *dorcas*, iii 73
 " " *isabella*, iii 75
 " " *sundevalli*, iii 72
 " *euchore*, iii 110
 " (*Eudorcas*) *lævipēs sene-galensis*, iii 62
 " *fuscifrons*, iii 49
 " *gazella*, iii 55, 56
 " *granti*, iii 86, 95
 " " *brighti*, iii 93
 " " *var. gelidjensis*, iii 95
 " " *granti*, iii 88
 " " *lacuum*, iii 92
 " " *notata*, iii 93
 " " *petersi*, iii 95
 " " *raineyi*, iii 92
 " " *robertsi*, iii 91
 " " *roosevelti*, iii 90
 " " *serengetæ*, iii 94
 " " *smithi*, iii 93
 " " *typica*, iii 88
 " *gutturosa*, iii 35, 46

- Gazella gutturosa altaica*, iii 39
 " " *gutturosa*, iii 37
 " *hayi*, iii 49
 " *hazenna*, iii 51
 " *hillieriana*, iii 43
 " *Indica cornu singulare*,
 iii 129
 " *isabella*, iii 72, 75, 76
 " *isabellina*, iii 75
 " *kevella*, iii 54
 " (*Korin*) *rufifrons*, iii 62
 " *lævipes*, iii 81
 " *leptoceros*, iii 67, 68
 " " *abu-harab*, iii 68
 " " *leptoceros*, iii 69
 " " *loderi*, iii 69
 " " *typica*, iii 69
 " *littoralis*, iii 76
 " " *littoralis*, iii 77
 " " *osiris*, iii 78
 " *loderi*, iii 68, 69
 " *marica*, iii 60
 " *melanura*, iii 81
 " *merrilli*, iii 56
 " *mohr*, iii 103, 105
 " *mohrr*, iii 105
 " *mongolica*, iii 43
 " *muscatensis*, iii 60
 " (*Nanger*) *dama*, iii 102
 " " *granti*, iii 86
 " " *soemmerringi*,
 iii 96, 97, v 111
 " " *soemmerringi*
 casanovæ, iii 100
 " " *soemmerringi*
 sibyllæ, iii 100
 " *nanguer*, iii 103
 " *naso*, iii 80
 " *notata*, iii 94
 " *pelzelni*, iii 78
 " *petersi*, iii 95
 " *picticauda*, iii 30
 " *picticaudata*, iii 30
 " (*Procapra*) *gutturosa*, iii
 34, 35
 " " *picticaudata*, iii 30
 " " *przewalskii*, iii 32
 " *przewalskii*, iii 33
 " *pygarga*, ii 33
 " *recticornis*, iii 119
 " *ruficollis*, iii 107
 " *rufifrons*, iii 61
 " " *albonotata*, iii 82
 " " *centralis*, iii 66
 " " *hasleri*, iii 65
 " " *kanuri*, iii 65
- Gazella rufifrons lævipes*, iii 64
 " " *rufifrons*, iii 63
 " " *salmi*, iii 64
 " " *typica*, iii 63
 " *rufina*, iii 66
 " *salmi*, iii 64
 " *seistanica*, iii 47
 " *soemmerringi*, iii 96
 " " *berberana*, iii 100
 " " *butteri*, iii 101
 " " *casanovæ*, iii 100
 " " *erlangeri*, iii 99
 " " *sibyllæ*, iii 100
 " " *soemmerringi*, iii
 98, v 111
 " " *typica*, iii 98
 " *spekei*, iii 78, 80
 " *subgutturosa*, iii 42, 43
 " " *sairensis*, iii 45
 " " *subgutturosa*, iii 44
 " " *yarkandensis*, iii 46
 " *thomsoni*, iii 83
 " " *nasalis*, iii 83
 " *tilonura*, iii 81
 " *vera*, iii 57
 " *walleri*, iii 114
 " *yarkandensis*, iii 46
 " " *kennioni*, iii 49
- gazella*, *Antilope*, i 157
 " *Gazella*, iii 55, 56
 " *Oryx*, iii 119, 120
- Gazelle à bourse sur le dos*, iii 109
 " *Dorcas*, iii 72
 " *Goitred*, iii 43
 " *Heuglin's*, iii 81
 " *Indian*, iii 52
 " *Pelzeln's*, iii 79
 " *Persian*, iii 43
 " *Soemmerring's*, iii 97
 " *Tzeiran*, iii 132
 " *Yarkand*, iii 46
- gelidjiensis*, *Gazella granti*, iii 95
Gems, i 181
Gemsbok, iii 120
 " *Bastard*, iii 135
Gemsbuck, iii 120
Gerenuk, iii 115
germanicus, *Cervus elaphus*, iv
 124
Ghasal, iii 58
Ghor-Khar, v 12, 13
Ghur, v 12, 14
gibbosa, *Antilope*, iii 147
gigas, *Alces alces*, iv 237
 " *Taurotragus derbianus*, iii
 217, 218

- gigliolii, *Hylochærus*, iv 363
 Giraffa, iii 236
 " *australis*, iii 256
 " *camelopardalis*, iii 240
 " subsp. iii 250, 251
 " *angolensis*, iii 254
 " *antiquorum*, iii 244
 " *camelopardalis*, iii 242
 " *capensis*, iii 256
 " *congoënsis*, iii 253
 " *cottoni*, iii 247
 " *infumata* iii 253
 " *peralta*, iii 246
 " *reticulata*, iii 236
 " *rothschildi*, iii 248, 251
 " *schillingsi*, iii 251
 " *thornicrofti*, iii 252
 " *tippelskirchi*, iii 250, 251
 " *typica*, iii 242
 " *wardi*, iii 255
 " *capensis*, iii 256
 " *hagenbecki*, iii 237
 " *infumata*, iii 253
 " *reticulata*, iii 236
 " *nigrescens*, iii 239
 " *reticulata* iii 238
 " *reticulatus*, iii 237
 " *schillingsi*, iii 251
 " *tippelskirchi*, iii 251
 " *wardi*, iii 255
 giraffa, *Camelopardalis*, iii 240
 Giraffe, iii 248
 " *Five-horned*, iii 248
 " *Nubian*, iii 242
 " *Tana*, iii 250
 glama, *Lama*, iv 302
 glauca, *Antilope*, iii 133
 glaucus, *Cemas*, iii 132
 gmelini, *Equus*, v 6
 " *Ovis orientalis*, i 80
 gnou, *Bos*, ii 50
 Gnu, ii 52
 " *Brindled*, ii 55
 " *White-bearded*, ii 58, v 106
 gnu, *Connochætes gnu*, ii 50
 Goa, iii 31
 Goat, *White*, i 219
 " *Wild*, i 157
 Goitred Gazelle, iii 43
 goldfinchi, *Equus*, v 30
 gonzalinus, *Ussa*, iv 89
 Goral, i 204
 " *Amur*, i 209
 " *Brown Himalayan*, i 206
 " *Grey Himalayan*, i 204
 " *Long-tailed*, i 208
 " *Sze-chuan*, i 207
 goral, *Nemorhædus*, i 203, 204
 Gorgon, ii 48
 " *albojubatus*, ii 58
 " *mearnsi* v 106
 " *fasciatus*, ii 54
 " *taurinus*, ii 55
 " *taurius*, ii 55
 " *mearnsi*, ii 58
 gorgon, *Catoblepas*, ii 54
 gorrichanus, *Ussa*, iv 90
 goslingi, *Ourebia*, ii 143
 " *Procavia*, v 62
 goudotii, *Cervus*, iv 173
 gour, *Bos*, i 14
 gracilis, *Cervus*, iv 107
 graicus, *Capra ibex*, i 141
 grandicornis, *Muntiacus muntjak*, iv 20
 granti, *Equus quagga*, v 30
 " *Gazella granti*, iii 88
 " *(Nanger)*, iii 86
 " *Procavia brucei*, v 71
 " *Rangifer tarandus*, iv 253
 gratus, *Tragelaphus*, iii 157
 " *spekei*, iii 188
 grayi, *Dendrohyrax*, v 77
 " *Pediotragus tragulus*, ii 147
 " *Scopophorus ourebi*, ii 133
 Great Indian Rhinoceros, v 48
 Grévy's Zebra, v 18
 grevyi, *Equus (Dolichohippus)*, v 17
 Grey Himalayan Goral i 204
 greyi, *Equus quagga*, v 21
 grilloanus, *Sika*, iv 107
 grimmi, *Cephalophus grimmi*, ii 110
 " *(Sylvicapra)* ii 107
 Grimmia, ii 63
 " *burchelli*, ii 108
 " *campbelliæ*, ii 116
 " *grimmia*, ii 115
 " *irrorata*, ii 108
 " *madoqua*, ii 117
 " *mergens*, ii 108
 " *nictitans*, ii 108
 " *ocularis*, ii 113
 " *splendidula*, ii 114
 grimmia, *Antilope*, ii 86
 " *Capra*, ii 107, 146
 grimmius, *Cephalophus*, ii 108
 grisea, *Antilope*, ii 33, 156

- griseotinctus, *Kobus defassa*, ii 238
 griseus, *Nemorhædus*, i 206
 „ *Oreotragus*, ii 156
 grønlandicus, *Rangifer tarandus*, iv 256
 grunniens, *Bos* (*Poëphagus*), i 31
 Grysbock, ii 155
 „ *melanotis*, ii 157
 Grysbok, ii 157
 Guanaco, iv 302, 303
 guanaco, *Auchenia*, iv 302
 guanacus, *Llama*, iv 303
 Guazupuco, iv 187
 Guazuti, iv 189
 gubanensis, *Madoqua phillipsi*, ii 181
 Guemal, iv 194
 „ *Peruvian*, iv 197
 guentheri, *Madoqua guentheri*, ii 192
 guettardi, *Cervus*, iv 239
 guevaranus, *Ussa*, iv 90
 Guevei, ii 93
 „ *æquatorialis*, ii 98
 „ *maxwelli*, ii 94
 „ *melanorheus*, ii 96
 „ *monticola*, ii 101
 Guib, iii 154, 155
 guidoteanus, *Ussa*, iv 90
 guineensis, *Cervus pusillus*, ii 169
 gutturosa, *Antelope*, iii 32
 „ *Gazella* (*Procapra*), iii 34
 „ „ *gutturosa*, iii 37
 Gymnotis, iv 154
 „ *wiegmanni*, iv 173
 gymnotis, *Odocoileus virginianus*, iv 173
 gymnotus, *Cariacus*, iv 173
 habessinica, *Procavia*, v 65
 „ „ *habessinica*, v 66
 habessinicus, *Hyrax*, v 65
 hagenbecki, *Capra sibirica*, i 145
 „ *Cervus*, iv 138
 „ *Equus*, v 7
 „ *Giraffa*, iii 237
 haggardi, *Ourebia*, ii 140
 hamar, *Asinus*, v 14
 „ *Equus*, v 14
 hamiltonianus, *Hippelaphus*, iv 92
 hamulicornis, *Rupicapra*, i 180
 Hanglu, iv 147
 hanglu, *Cervus*, iv 146
 Hangul, iv 147
 Haploceros, i 217
 „ *montanus*, i 218
 Haplocerus, i 217
 Harana, iv 116
 Harnessed Antelope, iii 154
 harnieri, *Kobus*, ii 234
 haroia, *Phacochoerus*, iv 372
 harrarensis, *Madoqua phillipsi*, ii 179
 Harrisbuck, iii 142
 „ *Sable*, iii 142
 harrisi, *Aigocerus*, iii 141
 harrisoni, *Neotragus* (*Hylarnus*), ii 167
 Hartebeest, Cape, ii 25
 „ *Hunter's*, ii 46
 „ *Rooi*, ii 25
 hartmannæ, *Equus zebra*, v 36
 harveyi, *Cephalophus*, ii 76
 „ „ *harveyi*, ii 77
 hasleri, *Gazella ruffrons*, iii 65
 hassama, *Potamochoerus*, iv 357
 hastalis, *Cervus*, iv 246
 hastata, *Ourebia*, ii 135
 hastatus, *Scopophorus*, ii 135
 Hathi, v 82
 hayi, *Gazella*, iii 49
 haywoodi, *Tragelaphus scriptus*, iii 170
 hazenna, *Antelope*, iii 51
 hecki, *Cephalophus* (*Guevei*), ii 105
 „ *Cervus porcinus*, iv 58
 „ *Connochætes taurinus*, ii 57
 heinsi, *Ovis ammon*, i 105
 Heleotragus *ellipsiprymnus*, ii 227
 „ *leche*, ii 247
 „ *vardonii*, ii 268
 Helladotherium *tigrinum*, iii 259
 hemionus, *Equus*, v 9, 11, 12
 „ *Odocoileus*, iv 176, 177
 „ „ *hemionus*, iv 178
 hemippus, *Equus onager*, v 14
 Hemitragus, i 173
 „ *hylocrius*, i 177
 „ *jayakari*, i 176
 „ *jemlabicus*, i 173
 „ *jemlaicus*, i 174
 „ *quadrirammissis*, i 174
 hemprichiana, *Antelope*, ii 174
 „ *Cephalophus*, ii 184
 „ *Neotragus*, ii 174
 hemprichii, *Antelope*, ii 174
 henrici, *Connochætes albojubatus*, v 106
 henrii, *Ovis*, i 98
 henryanus, *Kemas*, i 206

Heran, iii 25
 Herola, ii 46
 heteroceros, *Rusa aristotelis*, iv 72
 heterocerus, *Cervus*, iv 71
 Heterohyrax, v 58
 " *blainvillei*, v 69
 Heuglin's Gazelle, iii 81
 hillieriana, *Gazella*, iii 43
 himalayana, *Capra*, i 142
 himalayanus, *Capra ibex*, i 142
 hindei, *Cephalophus grimmii*, ii 119
 hipolitianus, *Ussa*, iv 90
 Hippelaphus, iv 60
 " *buruensis*, iv 92
 " *floresianus*, iv 92
 " *hamiltonianus*, iv 92
 " *macassaricus*, iv 92
 " *menadensis*, iv 92
 " *moluccensis*, iv 66
 " *noëvellianus*, iv 92
 " *timoriensis*, iv 64
 hippelaphus, *Cervus*, iv 66, 71
 " " *elaphus*, iv 124
 " *Tragelaphus*, iii 226
 Hippocamelus, iv 192
 " *antisensis*, iv 196
 " *antisiensis*, iv 196
 " *bisulcus*, iv 193, 194
 " *dubius*, iv 193
 " *nemorivagus*, iv 209
 " *pandora*, iv 213
 " *sartori*, iv 205
 Hippopotamus, iv 386
 " *abyssinicus*, iv 387
 " *amphibius*, iv 387
 " " *amphibius*, iv 389
 " " *australis*, iv 392
 " " *capensis*, iv 392
 " " *constrictus*, iv 391
 " " *kiboko*, iv 391
 " " *tschadensis*, iv 390
 " *australis*, iv 392
 " *capensis*, iv 392
 " (*Cheropsis*) *liberiensis*, iv 393
 " *constrictus*, iv 391
 " *liberiensis*, iv 393
 " *minor*, iv 393
 " *senegalensis*, iv 388
 " (*Tetraprotodon*) *amphibius*, iv 388
 " " *liberianus*, iv 393
 " *typus*, iv 387
 Hippotragus, iii 131
 " *bakeri*, iii 137, 138

Hippotragus *equinus*, iii 134, 137, 139, 140
 " " *bakeri*, iii 138
 " " *equinus*, iii 136
 " " *gambianus*, iii 140
 " " *langheldi*, iii 137, 138
 " " *rufopallidus*, iii 137
 " " *scharicus*, iii 139
 " " *typicus*, iii 136
 " *koba*, iii 140
 " *langheldi*, iii 137
 " *leucophæus*, iii 132, 133, 135
 " *niger*, iii 141, 142
 " " *kirki*, iii 144
 " " *niger*, iii 143
 " " *roosevelti*, iii 136
 " (*Ozanna*) *niger*, iii 142
 " " " *kaufmanni*, iii 144
 " *rufopallidus*, iii 137
 Hippotigris, v 19
 " *antiquorum*, v 22
 " *burchelli*, v 22
 " *campestris*, v 21, 35
 " *chapmani*, v 24
 " *frederici*, v 35
 " *hartmannæ*, v 36
 " *isabellinus*, v 20
 " *muansæ*, v 30
 " *penricei*, v 36
 " *quacha*, v 19
 " *quagga*, v 20
 " *transvaalensis*, v 25
 " *wahlbergi*, v 24
 " *zebra*, v 35
 Hircus, i 129
 " *falconeri*, i 162
 " *gazella*, i 157
 " *megaceros*, i 162
 hircus, *Capra*, i 156
 hirsutus, *Elephas maximus*, v 84
 hispanica, *Capra pyrenaica*, i 140
 hispanicus, *Cervus elaphus*, iv 121
 " *Ibex*, i 140
 hodgsoni, *Nemorhædus*, i 206
 " *Ovis ammon*, i 97, 98
 " *Pantholops*, iii 18

- Hog, Forest-, iv 363
 " Pygmy, iv 343
 " Red River-, iv 358
 " Wart-, iv 367
 Hog-Deer, iv 56
 holmwoodi, *Rhinoceros bicornis*,
 v 54
 Homelaphus, iv 198
 " inornatus, iv 199
 Horse, Mongolian Wild, v 8
 horstocki, *Pediotragus*, ii 148
 hortulorum, *Cervus hortulorum*,
 iv 114
 " " (Sika), iv 112
 hosei, *Bos bubalis*, i 46
 " *Tragulus kanchil*, iv 290
 houyi, *Bos caffer*, v 94
 hova, *Potamochoerus larvatus*, iv
 iv 350
 Hthamin, iv 100
 huamel, *Anomalocera*, iv 196
 " *Auchenia*, iv 193
 Huamela, iv 193
 " *leucotis*, iv 194
 huanaca, *Auchenia*, iv 302
 huanachus, *Lama*, iv 303
 Huanaco, iv 302, 303
 huanacos, *Lama*, iv 303
 huanacus, *Lama glama*, iv 302
 hubbacki, *Bos gaurus*, i 20
 Huemul, iv 194
 humboldtii, *Cervus*, iv 205
 humei, *Capricornis sumatrensis*,
 i 195
 " *Ovis ammon*, i 105
 humerale, *Tagassu angulatum*, iv
 384
 humeralis, *Dicotyles angulatus*,
 iv 384
 humilis, *Cervus*, iv 215
 Hunter's Hartebeest, ii 46
 hunteri, *Damaliscus*, ii 46
 hunti, *Bos (Bubalus) caffer*, i 67
 " " *caffer*, i 67, v 95
 Hybrid *Capra cylindricornis* and
 C. caucasica, i 133
 Hydrelaphus, iv 257
 " inermis, iv 258
 Hydrochoerus tapir, v 41
 Hydropotes, iv 257
 " affinis, iv 257
 " argyropus, iv 258
 " inermis, iv 257
 " kreyenbergi, iv 258
 Hydrotragus, iii 185
 " leucotis, ii 267
 Hyelaphus, iv 54
 " annamiticus, iv 58
 " calamianensis, iv 59
 " maculatus, iv 49
 " porcinus, iv 55
 " " pumilio, iv
 55
 hyemalis, *Cervus*, iv 107
 Hyemoschus, iv 295
 " aquaticus, iv 295
 hylæus, *Bos caffer*, v 96
 Hylarnus, ii 166
 " batesi, ii 166
 " harrisoni, ii 167
 Hylochoerus, iv 362
 " gigliolii, iv 363
 " ituriensis, iv 363
 " meinertzhageni, iv
 363
 " " ituriensis, iv
 363
 " " meinertzha-
 geni, iv 364
 " " rimator, iv
 364
 " rimator, iv 364
 hylocrius, *Hemitragus*, i 177
 Hyemoschus, iv 295
 " aquaticus, iv 295
 Hyomoschus, iv 295
 " aquaticus, iv 295
 Hyrax, v 58
 " abyssinicus, v 62, 65
 " alpini, v 62
 " arboreus, v 68, 76
 " bocagei, v 76
 " brucei, v 65, 69
 " burtoni, v 64
 " capensis, v 58
 " dongolanus, v 64
 " dorsalis, v 77
 " ferrugineus, v 65, 66
 " habessinicus, v 65
 " irroratus, v 69
 " " var. *leucogaster*, v
 65
 " mossambicus, v 69
 " nigricans, v 61
 " ruficeps, v 64
 " scioanus, v 62
 " semicircularis, v 59
 " sinaiticus, v 63
 " stampflii, v 77
 " sylvestris, v 77
 " syriacus, v 63
 " welwitschii, v 68

- Ibex, Alpine, i 141
 „ Asiatic, i 143
 „ Nubian, i 153
 „ Pyrenean, i 138
 Ibex, i 129
 „ alpinus, i 141
 „ europæa, i 141
 „ hispanicus, i 140
 „ nubiana, i 153
 „ pyrenaicus, i 138
 „ sakin, i 149
 „ sibirica, i 142
 „ sibiricus, i 143
 „ wali, i 156
 ibex, *Ægoceros*, i 141, 142
 „ Antilope, ii 147
 „ Capra, i 141, 142
 ichangensis, *Elaphodus cephalophus*, iv 39
 ignifer, *Cephalophus*, ii 75
 ignotus, *Cervus*, iv 107
 imberbis, *Stepsiceros*, iii 192
 „ „ imberbis, iii 194
 Impala, iii 6
 inconstans, *Sus*, iv 334
 Indian Buffalo, i 42
 „ Chevrotain, iv 263
 „ Elephant, v 82
 „ Gazelle, iii 52
 indica, *Acrocodia*, v 40
 „ Equus, v 34
 „ Meminna, iv 262
 indicus, *Buffelus*, i 41
 „ Elephas, v 81
 „ Equus onager, v 12
 „ Sus, iv 318
 „ Tapirus (*Acrocodia*), v 39
 inermis, *Hydropotes*, iv 257
 „ Rhinoceros, v 49
 infelix, *Sikaillus*, iv 107
 infumata, *Giraffa camelopardalis*, iii 253
 inornata, *Mazama*, iv 200
 inornatus, *Homelaphus*, iv 199
 insignis, *Bubalis lelwel*, ii 23
 intermedius, *Potamochoerus*, iv 361
 interscapularis, *Antilope*, i 188
 invadens, *Bubalis major*, v 100
 Inyala, iii 180
 iodes, *Tetracerus*, iii 222
 iodinus, *Kemas*, i 207
 irrorata, *Grimmia*, ii 108
 irroratus, *Hyrax*, v 69
 isaaci, *Boocercus eurycerus*, iii 206
 isabella, *Gazella*, iii 72, 75, 76
 „ „ dorcas, iii 75
 isabellina, *Antilope*, ii 204
 „ Gazella, iii 75
 isabellinus, *Eleotragus*, ii 204
 „ Hippotigris, v 20
 isidis, *Antilope*, iii 75
 isonotus, *Sus aper*, iv 318
 isphaganica, *Ovis orientalis*, i 83
 isphahanica, *Ovis orientalis*, i 83
 Isubra, iv 134
 isubra, *Cervus*, iv 133
 ituriensis, *Cephalophus*, ii 64
 „ Hylochoerus, iv 363
 Izard, i 181
 jacksoni, *Bubalis lelwel*, ii 21
 „ Procavia, v 68
 jallæ, *Equus*, v 30
 jamrachi, *Capricornis sumatrensis*, i 191
 Japanese Serow, i 200
 japonica, *Rusa*, iv 107
 japonica, *Sus vittatus*, iv 321
 japonicus, *Cervus (Hippelaphus)*, iv 107
 jarai, *Cervus*, iv 71
 Jarao, (Nepali), iv 73
 jarya, *Cervus*, iv 71
 Javan Rusa, iv 67
 javanicus, *Moschus*, iv 280, 292
 „ Rhinoceros v 49
 „ Tragulus, iv 268
 „ „ javanicus, iv 268
 jayakari, *Hemitragus*, i 176
 „ Procavia syriaca, v 64
 jemlahica, *Capra*, i 173
 jemlahicus, *Hemitragus*, i 173
 jemlaica, *Capra*, i 174
 jemlaicus, *Hemitragus*, i 174
 jemlanica, *Capra*, i 173
 Jentink's Duiker, ii 67
 jentinki, *Cephalophus*, ii 66
 jerdoni, *Capra falconeri*, i 169
 jharal, *Capra*, i 174
 Jimela, ii 45
 jimela, *Damaliscus korrigum*, ii 44, 45, v 104
 jimeru, *Bubalis*, ii 44
 johnstoni, *Æpycerus melampus*, iii 9
 „ Cephalophus, ii 75
 „ Connocætes taurinus, ii 57
 „ Okapia, iii 258
 „ Potamochoerus chæropotamus, iv 355

- johnstoni, *Procavia*, v 61
 jonesi, *Damaliscus korrigum*, ii 44
 joretianus, *Cervus*, iv 107
 joubertianus, *Sambar*, iv 92
 jubata, *Alces*, iv 230
 „ *Capra*, iii 134
 „ *Ovis*, i 96
 jubatulus, *Sus cristatus*, iv 320
 jubatus, *Sus cristatus*, iv 320
 jucunda, *Mazama americana*, iv 202
 jugularis, *Tragulus javanicus*, iv 278
- Kakar, iv 14
 kamerunensis, *Procavia*, v 75
 kanchil, *Tragulus*, iv 280, 281
 „ „ kanchil, iv 282
 kansuensis, *Cervus macneilli*, iv 146
 kanuri, *Gazella rufifrons*, iii 65
 karelini, *Ovis ammon*, i 104
 Kastura, iv 4
 katangæ, *Æpyceros melampus*, iii 10
 kaufmanni, *Hippotragus* (*Ozanna*) *niger*, iii 144
 „ *Taurotragus oryx*, iii 214
- Keitloa, v 52, 54
 „ *bicornis*, v 54
 keitloa (or ketloa), *Rhinoceros*, v 54
- Kemas, i 173, 202
 „ *fargesianus*, i 210
 „ *goral*, i 204
 „ *henryanus*, i 206
 „ *hodgsoni*, iii 19
 „ *hylocerius*, i 177
 „ *iodinus*, i 207
 „ *jemlaicus*, i 174
 „ *niger*, i 210
 „ *pinchonianus*, 207
 „ *proclivus*, i 193
 „ *raddeanus*, i 209
 „ *thar*, i 193
 „ *warryato*, i 177
 „ *xanthodeiros*, i 207
- kemas, *Antilope*, iii 18
 kempfi, *Procavia brucei*, v 72
 kenaiensis, *Ovis canadensis*, i 119
 keniaë, *Bubalis lelwel*, v 102
 „ *Cephalophus harveyi*, ii 77
 „ *Potamochoerus choeropotamus*, iv 356
- kennedyi, *Oreamnos americanus*, i 221
 kennioni, *Gazella yarkandensis*, iii 49
 kenyaë, *Ourebia*, ii 141
 kerabau, *Bos* i 41
 kerstingi, *Procavia*, v 62
 Kevel, iii 61
 kevella, *Antilope*, iii 61, 70
 „ *Gazella*, iii 54
 khur, *Equus*, v 12
 Kiang, v 9
 kiang, *Equus*, v 8
 kiboko, *Hippopotamus amphibius*, iv 391
 Kik, iii 46
 kirchenpaueri, *Nesotragus*, ii 160
 kirki, *Hippotragus niger*, iii 144
 kirki, *Madoqua kirki*, ii 188
 „ „ (*Rhynchotragus*), ii 187, 188
- kirkii, *Hippotragus niger*, iii 144
 Klip-Dea, v 59
 klippspringer, *Antilope*, ii 123
 Klipspringer, ii 125
 knochenhaueri, *Elephas africanus*, v 88
 knochenhaureri, *Elephas africanus*, v 88
 knutsoni, *Tragelaphus scriptus*, iii 158
- Kob, *Buffon's*, ii 256
 „ *Western*, ii 256
 kob, *Adenota*, ii 253, 264
 „ *Kobus* (*Adenota*), ii 253, v 111
 „ *Kobus kob*, ii 256
 koba, *Adenota*, ii 264
 „ *Ægoceros*, iii 140
 „ *Bubalis*, ii 42
 Kobus, ii 225, v 110
 „ (*subgenus*), ii 226
 „ *adansoni*, ii 253
 „ (*Adenota*) *kob*, ii 253, v 111
 „ „ *vardoni*, ii 268
 „ *adolphi-friderici*, ii 235
 „ *crawshayi*, ii 244
 „ *defassa*, ii 232, v 110
 „ „ *albertensis*, ii 238
 „ „ *breviceps*, ii 238
 „ „ *cottoni*, ii 238
 „ „ *crawshayi*, ii 244
 „ „ *defassa*, ii 238
 „ „ *dianaë*, ii 238
 „ „ *griseotinctus*, ii 238
 „ „ *harnieri*, ii 234

- Kobus defassa ladoensis*, ii 238
 „ „ *penricei*, ii 245
 „ „ *tjæderi*, ii 235
 „ „ *tschadensis*, ii 235
 „ „ *ugandæ*, ii 240
 „ „ *unctuosus*, ii 241, 242
 „ *defassus*, ii 232
 „ *ellipsiprymnus*, ii 226
 „ „ *canescens*, ii 229
 „ „ *kondensis*, ii 229
 „ „ *kulu*, ii 229
 „ „ *kuru*, ii 230
 „ „ *lipuwa*, ii 229
 „ „ *pallidus*, ii 228
 „ „ *thikæ*, ii 228
 „ *harnieri*, ii 234
 „ *kob*, ii 264
 „ „ *adolfi*, ii 259
 „ „ *aluræ*, ii 260
 „ „ *bahr-keetæ*, ii 259
 „ „ *kob*, ii 256
 „ „ *leucotis*, ii 266
 „ „ *loderi*, ii 260
 „ „ *neumannii*, ii 262
 „ „ *nigricans*, ii 258
 „ „ *nigroscapulatus*, ii 265
 „ „ *notatus*, ii 263
 „ „ *riparius*, v 111
 „ „ *thomasi*, ii 264
 „ „ *ubangensis*, ii 259
 „ *leche*, ii 246
 „ *lechee*, ii 247
 „ *leucotis*, ii 264, 266
 „ *maria*, ii 251
 „ *maria*, ii 251
 „ *megaceros*, ii 251
 „ (*Onotragus*) *leche*, ii 246
 „ „ *maria*, ii 251
 „ „ *robertsi*, ii 249
 „ „ *smithemani*, ii 249
 „ *penricei*, ii 245
 „ *sing-sing*, ii 232, 234, 241
 „ *unctuosa*, ii 242
 „ „ *uwendensis*, ii 238
 „ *unctuosus*, ii 242
 „ „ *matschiei*, ii 234
 „ „ *tschadensis*, ii 235
 „ „ *ugandæ*, ii 240
 „ *vardonii*, ii 268
 „ „ *senganus*, ii 269
 „ „ *vardonii*, ii 269
 „ „ *vaughani*, ii 265
 „ *Koedoe*, iii 198
Koiropotamus, iv 348
koiropotamus, *Sus*, iv 351
Kolus, ii 225
 „ *ellipsiprymnus*, ii 226
 „ *sing-sing*, ii 241
kondensis, *Kobus ellipsiprymnus*, ii 229
Kongoni, ii 13
kongoni, *Bubalis cokei*, ii 17
Koodoo, iii 198
koodoo, *Strepsiceros*, iii 197
kopschi, *Cervus hortulorum*, iv 115
Korin, iii 40
Korrigum, ii 40, 41
korrigum, *Damaliscus*, ii 39, 40, v 103
 „ „ *korrigum*, ii 41
kozlovi, *Ovis ammon*, v 97
kreyenbergi, *Hydropotes*, iv 258
Kudu, iii 198
 „ *Lesser*, iii 192
kudu, *Strepsiceros*, iii 197
kuhli, *Cervus (Rusa)*, iv 61
kuhli, *Cervus*, iv 61
kul, *Adenota*, ii 267
Kulan, v 11, 12
kulu, *Kobus ellipsiprymnus*, ii 229
kuru, „ „ ii 230
Kwaroku, iv 111
kyang, *Asinus*, v 9
labiatus, *Dicotyles*, iv 375
labipes, *Cervus*, iv 83
Lacma, iv 301
 „ *peruana*, iv 302
lacrymans, *Muntiacus*, iv 25
 „ „ *lacrymans*, iv 26
 „ *Sika*, iv 107
lacrymosus, *Cervus*, iv 107
lacuum, *Gazella granti*, iii 92
ladoensis, *Kobus defassa*, ii 238
lævipes, *Gazella*, iii 81
 „ „ *rufifrons*, iii 64
laikipia, *Procavia crawshayi*, v 79
lalandia, *Antilope*, ii 220
lalandii, *Antilope*, ii 221
Lama, iv 301
 „ *glama*, iv 302
 „ „ *cacsilensis*, iv 304
 „ „ *huanacus*, iv 302
 „ „ *pacos*, iv 302
 „ *guanaco*, iv 303
 „ *huanacha*, iv 303
 „ *huanachus*, iv 303
 „ „ *cacsilensis*, iv 304
 „ *huanacos*, iv 303
 „ *huanacus*, iv 303

- Lama vicugna*, iv 304
lama, *Auchenia*, iv 302
lampensis, *Tragulus kanchil*, iv 288
lanata, *Antilope*, ii 200
lancavensis, *Tragulus kanchil*, iv 288
landiana, *Antilope*, ii 220
langheldi, *Eudorcas*, iii 84
 " *Hippotragus equinus*, iii 137, 138
langi, *Madoqua*, ii 185
lanigera, *Antilope*, i 218
laosiensis, *Gauribus*, i 30
lapponum, *Tarandus*, iv 239
laristanica, *Ovis*, i 83
larvatus, *Potamochoerus*, iv 349
 " *larvatus*, iv 350
 " *Sus*, iv 351
lasiotis, *Odocoileus virginianus*, iv 172
 " *Rhinoceros sumatrensis*, v 51
latastei, *Procapra*, v 69
laticeps, *Tragelaphus locorinae*, iii 168
latidens, *Sambar*, iv 92
 " *Sikaillus*, iv 107
latipes, *Cervus*, iii 221
latrator, *Procapra emini*, v 76
laurillardii, *Tapirus terrestris*, v 43
Leche, ii 247
leche, *Kobus (Onotragus)*, ii 246
lechee, *Adenota*, ii 247, 266
lechi, *Cobus*, ii 247
Lechwe, ii 247
lechwe, *Cobus*, ii 247
lechi, *Cobus*, ii 247
Lelwel, ii 19
lelwel, *Bubalis*, ii 19, 21, v 101
 " *lelwel*, ii 20
lemeanus, *Sambar*, iv 92
leopardi, *Cephalophus*, ii 78
lepida, *Rusa*, iv 150
lepidus, *Cervus*, iv 150
leptocephala, *Mazama*, iv 185
leptocephalus, *Cariacus*, iv 185
Leptoceros, iii 40
 " *abu-harab*, iii 68
 " *cuvieri*, iii 68
leptoceros, *Antilope*, iii 64
 " *Bos*, i 30
 " *Gazella*, iii 67, 68
 " *leptoceros*, iii 69
lervia, *Ammotragus lervia*, i 124
leschenaulti, *Cervus (Hippelaphus)*, iv 71
leschenaultii, *Cervus*, iv 71
Lesser Kudu, iii 192
leucæthiops, *Cervus dama*, β , iv 42
leucochilus, *Cephalophus*, ii 82
leucogaster, *Cephalophus*, ii 79
 " *Cervus*, iv 188
 " *Hyrax irroratus*, v 65
 " *Moschus*, iv 5
leucogenys, *Tapirus*, v 44
leucomystax, *Sus*, iv 321
 " *leucomystax*, iv 322
leucophæa, *Antilope*, iii 132, 153
leucophæus, *Hippotragus*, iii 132, 133
leucoprosopus, *Cephalophus (Sylvicapra)*, ii 121
leucoprymnus, *Bos*, i 21
 " *Bubalus*, ii 29
leucopus, *Antilope*, iii 225
leucoryx, *Antilope*, iii 127
 " *Oryx*, iii 129
leucotis, *Capreolus*, iv 194
 " *Kobus*, ii 264
 " *kob*, ii 266
 " *Xenelaphus*, iv 196
leucura, *Reduncina*, iv 162
leucurus, *Odocoileus virginianus*, iv 162
lewisii, *Cervus*, iv 182
liardensis, *Ovis*, i 120
liberianus, *Hippopotamus (Tetraodon)*, iv 393
liberiensis, *Chæropsis*, iv 393
Lichi, ii 247
lichtensteini, *Bubalis*, ii 29
 " *Dama*, iv 165
liebrechtsi, *Okapia*, iii 259
lignarius, *Sambar*, iv 92
Limnotragus, iii 185
 " *gratus*, iii 188
 " *selousi*, iii 189
 " *selousi*, iii 189
 " *spekii*, iii 186
limpopoënsis, *Bos caffer*, i 56
lipuwa, *Kobus ellipsiprymnus*, ii 229
Lithocranius, iii 113
Lit[h]ocranius (Gazella) walleri, iii 114
Lithocranius, sclateri, iii 116
 " *walleri*, iii 114
 " *sclateri*, iii 116

- Lithocranius walleri walleri*, iii 115
Lithotragus, i 186
littledalei, *Ovis ammon*, i 102
littoralis, *Gazella*, iii 76
 " " *littoralis*, iii 77
livingstonei, *Nesotragus*, ii 162
 " *Taurotragus oryx*, iii 212
livingstoni, *Oreas canna*, iii 212
livingstonianus, *Neotragus livingstonianus*, ii 163
 " *Neotragus* (*Nesotragus*), ii 162
 " *Taurotragus oryx*, iii 212
livingstonii, *Oreas*, iii 212
Llama, *Wild*, iv 303
Llama, iv 301, 302
 " *glama*, iv 302
 " *guanacus*, iv 303
 " *pacos* (*fera*), iv 303
 " *vicugna*, iv 304
llama, *Auchenia*, iv 302
lobata, *Alces*, iv 234
lobatus, *Cervus*, iv 234
locorinæ, *Tragelaphus scriptus*, iii 168
loderi, *Gazella leptoceros loderi*, iii 69
loderi, *Kobus kob*, ii 260
Long-tailed Goral, i 208
longiceps, *Antilope* (*Terpone*), ii 66
 " *Cephalophus*, ii 64
longicornis, *Bibos*, i 30
 " *Capricornis*, i 202
 " *Sambar*, iv 91
longicuspis, *Ussa*, iv 90
longipes, *Tragulus kanchil*, iv 282
longirostris, *Sus*, iv 339
lopesi, *Procavia*, v 67
Lophotragus, iv 34
 " *michianus*, iv 36
lorenzi, *Connochætes albojubatus*, v 106
 " *Equus quagga*, v 21
louisianæ, *Odocoileus virginianus*, iv 162
lowi, *Bos banteng*, i 25
Loxo(-disco-)don, v 85
Loxodon, v 85
 " *africanus*, v 84
 " *cyclotis*, v 87
Loxodonta, v 85
 " *africana*, v 85
Loxodonte, v 85
Ludolphozecora, v 15
luehdorfi, *Cervus*, iv 133
lugens, *Cephalophus* (*Guevei*), ii 106
luehdorfi, *Cervus*, iv 133
lunata, *Antilope*, ii 37
lunatus, *Damaliscus*, ii 37
lusitanica, *Capra pyrenaica*, i 139
lutea, *Cephalophus grimmia*, v 108
luteicollis, *Tragulus kanchil*, iv 282
lutescens, *Tragulus javanicus*, iv 275, 294
luteus, *Cephalophus grimmii*, v 108
luzarchei, *Bubalis*, v 102
lybicus, *Sus scrofa*, iv 316
lydekkeri, *Capra sibirica*, i 145
 " *Ovis borealis*, v 99
lyra, *Damaliscus korrigum*, v 103
lyratus, *Cervus*, iv 100

macarianus, *Ussa*, iv 90
macassaricus, *Hippelaphus*, iv 92
Machlis, iv 40
machlis, *Alces*, iv 230
mackenzianus, *Ovibos moschatus*, i 229
mackinderi, *Procavia*, v 67
macneilli, *Cervus*, iv 145
 " *Cervus macneilli*, iv 145
macrocephala, *Eudorcas thomsoni*, iii 84
Macrocephalus, iv 365
 " *africanus*, iv 373
 " *larvatus*, iv 349
macroceros, *Bos bubalis*, i 45
Macrootis, iv 154
macrootis, *Cervus*, iv 176
macrourus, *Odocoileus virginianus*, iv 161
macrura, *Mazama americana*, iv 161
macrurus, *Dorcelaphus*, iv 161
maculata, *Antilope*, ii 33
 " *Procavia brucei*, v 71
maculatus, *Axis*, iv 49
 " *Moschus moschiferus*, iv 5
madagascariensis, *Potamochoerus*, iv 349
madoka, *Antilope*, ii 174
Madoqua, ii 172
 " (subgenus), ii 173
 " *cavendishi*, ii 185

- Madoqua cavendishi cavendishi*, ii 186
 „ „ *minor*, ii 187
 „ *cordeauxi*, ii 182
 „ *damarensis*, ii 184
 „ „ *damarensis*, ii 184
 „ „ *variani*, ii 185
 „ *erlangeri*, ii 182
 „ *guentheri guentheri*, ii 192
 „ „ *smithi*, ii 194
 „ „ *wroughtoni*, ii 193
 „ *harrarensis*, ii 179
 „ *hemprichii*, ii 174
 „ *kirki*, ii 188
 „ „ *kirki*, ii 188
 „ „ *nyikæ*, ii 189
 „ „ *typica*, ii 188
 „ *langi*, ii 185
 „ *phillipsi*, ii 177, 178
 „ „ *gubanensis*, ii 181
 „ „ *harrarensis*, ii 179
 „ „ *phillipsi*, ii 178
 „ *piacentinii*, ii 177
 „ (*Rhynchotragus*)
 cavendishi, ii 185
 „ „ *damarensis*, ii 184
 „ „ *kirki*, ii 187, 188
 „ „ *nasoguttata*, ii 194
 „ „ *nasoguttatus*, ii 194
 „ „ *saltiana*, ii 174
 „ „ *swaynei*, ii 176
madoqua, *Antilope*, ii 117, 175
mainitensis, *Bubalus*, i 47
major, *Axis*, iv 49
 „ „ *Bubalis*, ii 6, v 100
 „ „ *major*, v 100
 „ „ *Cervus*, iv 129
 „ „ *axis*, iv 70
 „ „ *mantschuricus*, iv 112
 „ „ (*Subulo*) *simplicicornis*, iv 212
makalæ, *Tragelaphus*, iii 157
malabaricus, *Muntiacus muntjak*, iv 24
malaccensis, *Cervus*, iv 78
 „ „ *Meminna*, iv 262
Malay Tapir, v 40
malayanus, *Tapirus*, v 40
malchis, *Alces*, iv 230
manchuricus, *Capreolus*, iv 224
 „ „ *Cervus sica*, iv 110
mandarinus, *Cervus*, iv 112
manningi, *Procavia brucei*, v 72
mantchurica, *Pseudaxis*, iv 110
mantchuricus, *Cervus nippon*, iv 110
mantschuricus, *Axis*, iv 110
 „ „ *Cervus pygargus*, iv 224
manyaræ, *Eudorcas*, iii 84
maraisianus, *Ussa*, iv 90
Maral, iv 126
maral, *Cervus elaphus*, iv 126
marchei, *Sus*, iv 333
marcolinus, *Capricornis*, i 202
margaritæ, *Odocoileus virginianus*, iv 174
maria, *Kobus* (*Onotragus*), ii 251
marixæ, *Cobus*, ii 251
 „ „ *Equus burchelli*, v 27
mariannus, *Cervus unicolor*, iv 83
marianus, *Ussa*, iv 83
marica, *Gazella*, iii 60
maritimus, *Capricornis*, i 202
Markhor, i 162
marlothi, *Procavia capensis*, v 60
marmandianus, *Sikaillus*, iv 107
marmota, *Procavia* (*Dendrohyrax*), v 78
Marsh-Deer, iv 187
marsupialis, *Antidoreas*, iii 109, 111
 „ „ „ *marsupialis*, iii 111
marwitzi, *Eudorcas thomsoni*, iii 84
marzaninus, *Ussa*, iv 90
Masai Zebra, v 31
masbatensis, *Melanaxis*, iv 90
maschona, *Potamochoerus chceropotamus*, iv 353
massaicus, *Bubalus*, v 93
 „ „ *Phacochoerus æthiopicus*, iv 370
 „ „ *Tragelaphus scriptus*, iii 173
mathewsi, *Bos caffer*, i 59
Matschiea, iii 85
 „ „ *granti*, iii 86
matschiei, *Bubalis major*, v 100
 „ „ *Kobus unctuosus*, ii 234
 „ „ *Ovis*, i 75
 „ „ *Procavia*, v 68
maura, *Cervus dama*, iv 42
mauretanica, *Bubalis*, ii 5
mauricus, *Cervus*, iv 42
mauritanicus, *Bubalus*, ii 5
maxillaris, *Capricornis*, i 202
maximus, *Elephas*, v 81
 „ „ „ *maximus*, v 82

- maxwelli, *Cephalophus* (Guevei),
ii 93
- maxwellii, *Antelope*, ii 94
- mayi, *Bos caffer*, i 62
- Mazama, i 217, iv 153, 198
- " americana, i 218, iv 156,
 199, 200, 209
- " " americana, iv 165,
 200
- " " borealis, iv 160
- " " citus, iv 212
- " " conesi, iv 164
- " " gymnotis, iv 173
- " " jucunda, iv 202
- " " lichtensteini, iv
 165
- " " macrura, iv 161
- " " nelsoni, iv 168
- " " nemoralis, iv 170
- " " osceola, iv 162
- " " peruviana, iv 175
- " " savannarum, iv
 174
- " " texana, iv 163
- " " thomasi, iv 168
- " " tolteca, iv 167
- " " truei, iv 169
- " " typica, iv 159
- " antisiensis, iv 196
- " aurita, iv 214
- " bezoartica, iv 189
- " bira, iv 209
- " bisulca, iv 194
- " (*Blastoceros*) bezoar-
 tica, iv 189
- " " dichotoma, iv 187
- " bricenii, iv 207
- " campestris, iv 189
- " columbiana, iv 182
- " " crooki, iv 185
- " " scaphiotus, iv 184
- " columbianus sitkensis,
 iv 184
- " crooki, iv 185
- " dichotoma, iv 187
- " (*Dorcilaphus*), iv 175
- " " americana, iv 156
- " " columbianus, iv
 182
- " " hemionus, iv 177
- " dorsata, i 218
- " furcata, iv 187
- " hemionus, iv 177
- " " californica, iv 179
- " " cerrosensis, iv 180
- " " eremica, iv 180
- Mazama hemionus peninsulæ, iv
 181
- " " typica, iv 178
- " inornata, iv 200
- " leptocephala, iv 185
- " macrotis, iv 176
- " montana, i 218
- " nana, iv 213
- " nemoralis, iv 170
- " nemorivaga, iv 209
- " (*Odocoileus*) virginia-
 nus, iv 156
- " paludosa, iv 187
- " pandora, iv 213
- " pita, iv 199
- " pusilla, iv 182
- " rondoni, iv 214
- " rufa, iv 200
- " rufina, iv 208
- " sartorii, iv 205
- " sericea, i 218
- " sheila, iv 205
- " similis, iv 185
- " simplicicornis, iv 208,
 209
- " " citus, iv 212
- " " mexianæ, iv 211
- " " simplicicornis, iv
 210
- " spinosa, iv 174
- " superciliaris, iv 203
- " tema, iv 205
- " " cerasina, iv 207
- " " reperticia, iv 207
- " " tema, iv 206
- " tschudii, iv 212
- " virginiana, iv 155
- " " borealis, iv 160
- " " lichtensteini, iv
 165
- " (*Xenelaphus*) antisien-
 sis, iv 196
- " " bisulca, iv 194
- " zetta, iv 204
- mearnsi, *Connocætes taurinus*, v
 106
- " Gordon taurinus, ii 58
- mediterraneus, *Cervus*, iv 121
- Megacephalon, v 15, 18
- " grevyi, v 18
- megaceros, *Adenota*, ii 251
- " *Capra falconeri*, i 167
- " *Hircus*, i 162
- megalotis, *Dorcotragus*, ii 195
- meinertzhageni, *Hylochærus*, iv
 363

- meinertzhageni, *Hylochoerus mei-*
 nertzhageni, iv 364
 mekongensis, *Gauribus*, i 30
 melampus, *Æpyceros*, iii 5, 6, 8
 Melanax, iv 48
 „ *alfredi*, iv 63
 „ *basilanensis*, iv 85
 „ *breviceps*, iv 89
 „ *elegans*, iv 89
 „ *masbatensis*, iv 90
 melanoprymnus, *Cephalophus*, ii
 64
 melanorheneus, *Cephalophus*, ii 96
 melanorheus, *Cephalophus* (*Gue-*
 vei), ii 96, v 107
 „ „ *melanorheus*,
 ii 97
 „ *schultzei*, *Cephalo-*
 phus, v 107
 melanotis, *Capreolus bedfordi*, iv
 225
 „ *Raphiceros* (*Nototra-*
 gus), ii 155
 melanura, *Antilope*, ii 133, iii 81
 melas, *Cervus*, iv 21
 melvillensis, *Ovibos moschatus*, i
 228
 Memina, iv 261
 Meminna, iv 261
 „ *indica*, iv 262
 „ *malaccensis*, iv 262
 meminna, *Tragulus*, iv 262
 Memminna, iv 263
 menadensis, *Hippelaphus*, iv 92
 meneliki, *Tragelaphus scriptus*,
 iii 160
 mengesi, *Capra nubiana*, i 155
 mephistophiles, *Pudu* (*Pudella*),
 iv 217
 mergens, *Antilope*, ii 107
 meridionalis, *Alces machlis*, iv 232
 „ *Sus scrofa*, iv 313
 „ *Tragelaphus cottoni*,
 iii 167
 merriami, *Cervus canadensis*, iv
 132
 merrilli, *Gazella*, iii 56
 meruensis, *Tragelaphus scriptus*,
 iii 175
 merzbacheri, *Capra sibirica*, i 147
 mesopotamia, *Cervus dama*, iv 45
 mesopotamica, *Dama*, iv 45
 mesopotamicus, *Cervus* (*Dama*),
 iv 45
 mexianæ, *Mazama simplicicornis*,
 iv 211
 mexianæ, *Tapirus terrestris*, v 43
 mexicana, *Antilocapra americana*,
 iii 234
 „ *Ovis canadensis*, i 116
 „ *Reduncina*, iv 165
 mexicanus, *Odocoileus virgini-*
 anus, iv 165
 „ *Ovis*, i 116
 mhoks, *Antilope*, iii 105
 Mhorr, iii 105
 mhorr, var. *β*, *Antilope*, iii 102
 „ *Gazella dama*, iii 104, 105
 Mi-lu, iv 152
 michaelinus, *Ussa*, iv 90
 michianus, *Elaphodus cephalo-*
 phus, iv 36
 microdon, *Ourebia*, ii 142
 microdonticus, *Capricornis*, i 202
 microdontus, *Ussa*, iv 90
 microtis, *Sus*, iv 333
 micrurus, *Muntiacus reevesi*, iv 30
 middendorfi, *Ovis*, v 99
 milleri, *Sus vittatus*, iv 325
 milne-edwardsi, *Capricornis suma-*
 trensis, i 190
 mimenoides, *Tragulus*, iv 262
 mimus, *Sus vittatus*, iv 329
 mindanensis, *Sus celebensis*, iv 334
 mindorensis, *Bos* (*Bubalus*), i 47
 Mindoro Buffalo, i 47
 minoënsis, *Sika*, iv 107
 minor, *Axis*, iv 49
 „ *Cervus*, iv 55
 „ *Cervus elaphus*, iv 121
 „ *Hippopotamus*, iv 393
 „ *Madoqua cavendishi*, ii 187
 „ *Procavia habessinica*, v 66
 minuta, *Antilope*, ii 101
 minutus, *Sus celebensis*, iv 334
 Minytragus, ii 158
 missoulæ, *Oreamnos americanus*,
 i 220
 mitchelli, *Budorcas taxicolor*, i 214
 mitratus, *Sika*, iv 107
 modestus, *Bubalis lelwel*, v 102
 moellendorffi, *Bubalus*, i 46
 mohr, *Gazella*, iii 103
 moluccensis, *Cervus timoriensis*,
 iv 65
 mongolica, *Gazella*, iii 43
 „ *Ovis ammon*, i 96
 montana, *Mazama*, i 218
 „ *Ourebia*, ii 138, v 109
 „ „ *montana*, ii 139,
 v 109
 „ *Ovis*, i 84, 109

montanus, *Cervus macrotis*, iv 178
 „ *Cervus vulgaris*, iv 126
 „ *Equus*, v 21, 35
 „ *Musimon*, i 110
 „ *Ovis*, i 121, 218
 „ *Rangifer tarandus*, iv 249
 „ *Scopophorus*, ii 137
 monticola, *Cephalophus* (Guevei), ii 100
 Moose, iv 232, 234
 moschata, *Antilope*, ii 160
 moschatus, *Cervus*, iv 21
 „ *Muntiacus muntjak*, iv 15
 „ *Neotragus moschatus*, ii 160
 „ „ (*Nesotragus*), ii 159
 „ *Ovibos*, i 224
 „ „ *moschatus*, i 225
 „ *Prox*, iv 12
 moschiferus, *Moschus*, iv 4
 „ „ *moschiferus*, iv 5
 Moschus, iv 3
 „ *altaicus*, iv 5
 „ *americanus*, iv 199
 „ *aquaticus*, iv 295
 „ *chrysogaster*, iv 5
 „ *grimmia*, ii 107
 „ *javanicus*, iv 268, 280, 292
 „ *kanchil*, iv 280
 „ *leucogaster*, iv 5
 „ *meminna*, iv 262
 „ *moschiferus*, iv 4
 „ „ *altaicus*, iv 5
 „ „ *concolor*, iv 5
 „ „ *fasciatus*, iv 5
 „ „ *maculatus*, iv 5
 „ „ *moschiferus*, iv 5
 „ „ *parvipes*, iv 8
 „ „ *sifanicus*, iv 7
 „ *napu*, iv 269
 „ *parvipes*, iv 8
 „ *pelandoc*, iv 292
 „ *pygmæus*, ii 169
 „ *saturatus*, iv 5
 „ *sibiricus*, iv 5
 „ *sifanicus*, iv 7
 „ (*Tragulus*) *stanleyanus*, iv 265
 mossambicus, *Hyrax*, v 39
 Mouflon, i 76
 Mountain Nyala, iii 183
 „ *Zebra*, v 34

moupinensis, *Sus scrofa*, iv 317
 Mouse-Deer, iv 263
 muansæ, *Hippotigris*, v 30
 muenzeri, *Procavia*, v 74
 Mule-Deer, iv 177
 multiannulata, *Rudunca isabelina*, ii 205
 multicolor, *Tragelaphus scriptus*, iii 162
 mundorosa, *Eudorcas*, iii 84
 Muntiacus, iv 10
 „ *aureus*, iv 24
 „ *bancanus*, iv 15
 „ *crinifrons*, iv 33
 „ *feæ*, iv 32
 „ *grandicornis*, iv 20
 „ *lacrymans*, iv 25
 „ „ *lacrymans*, iv 26
 „ „ *sclateri*, iv 26
 „ „ *teesdalei*, iv 27
 „ *malabaricus*, iv 24
 „ *moschatus*, iv 15
 „ *muntjak*, iv 11, 12
 „ *muntjak*, iv 11, 12, 25
 „ „ *aureus*, iv 24
 „ „ *bancanus*, iv 15
 „ „ *curvostylis*, iv 19
 „ „ *grandicornis*, iv 20
 „ „ *malabaricus*, iv 24
 „ „ *moschatus*, iv 15
 „ „ *muntjak*, iv 14
 „ „ *peninsulæ*, iv 18
 „ „ *pleiharicus*, iv 16
 „ „ *robinsoni*, iv 18
 „ „ *rubidus*, iv 16
 „ „ *vaginalis*, iv 21
 „ *nigricans*, iv 272
 „ *pleiharicus*, iv 16
 „ *reevesi*, iv 27
 „ „ *micrurus*, iv 30
 „ „ *pingshiangicus*, iv 30
 „ „ *reevesi*, iv 28
 „ „ *rubidus*, iv 16
 „ *sinensis*, iv 31
 „ *vaginalis*, iv 22
 Muntjac, iv 14

- muntjac, *Cervulus*, iv 15
 " *Cervus*, iv 11
 " *Muntiacus*, iv 11, 12
 " *Stylloceros*, iv 21
 Muntjacus, iv 10
 " *vaginalis*, iv 14, 21
 muntjacus, *Styllocerus*, iv 21
 muntjak, *Muntiacus*, iv 11, 12, 25
 " " *muntjak*, iv 14
 münzeri, *Procavia* (*Heterohyrax*),
 v 74
 muscatensis, *Gazella*, iii 60
 musculoides, *Cephalophus melan-*
 orheus, ii 99
 Musimon, i 73
 " *argali*, i 93
 " *cyprius*, i 79
 " *montanus*, i 110
 " *musimon*, i 75
 " *musmon*, i 75
 " *nahor*, i 127
 " *tragelaphus*, i 123
 " *vignei*, i 84
 musimon, *Ovis*, i 75, v 97
 Musk-Deer, iv 4
 Musk-ox, i 225
 Musmon, i 73
 musmon, *Ovis*, i 75
 muswa, *Alces*, iv 234
 mutus, *Bos grunniens*, i 33
 " *Poëphagus*, i 31
 mystaceus, *Sus*, iv 337
 mytilopes, *Antilope*, iii 147

 Næmorhædus, i 202
 " *raddeanus*, i 209
 " *sumatrensis*, i 188
 Næmorhedus, i 186, 202
 " *arnouxianus*, i 206
 " *edwardsii*, i 190
 " *goral*, i 204
 " *griseus*, i 207
 " *hodgsoni*, i 206
 Nagor, ii 202, 212, 213
 nagor, *Redunca*, ii 211
 nahoor, *Pseudois*, i 126
 nahura, *Ovis*, i 127
 Nakong, iii 188
 nakuræ, *Bubalis cokei*, ii 16
 nakuröensis, *Eudorcas*, iii 84
 nambi, *Nanelaphus*, iv 213
 nana, *Mazama*, iv 213
 Nanelaphus, iv 198, 214
 " *namby*, iv 213
 " *pudu*, iv 215
 Nanger, iii 85, 103

 Nanger dama, iii 103
 " *nhor*, iii 105
 Nanguer, iii 103
 nanguer, *Antilope* (*Dama*), iii 102
 nannodes, *Cervus canadensis*, iv
 133
 Nanotragus, ii 158
 " *damarensis*, ii 184
 " *campestris*, ii 148
 " *hastatus*, ii 135
 " *livingstonianus*, ii
 162
 " *melanotis*, ii 156
 " *montanus*, ii 138
 " *moschatus*, ii 160
 " *nigricaudatus*, ii 137
 " *oreotragus*, ii 124
 " *perpusillus*, ii 170
 " *regius*, ii 170
 " *scoparius*, ii 133
 " *spiniger*, ii 169
 " *tragulus*, ii 148
 nanus, *Bos caffer*, i 68
 " *Cervus* (*Subulo*), iv 213
 " *Dicotyles angulatus*, iv 386
 napu, *Tragulus*, iv 277
 " " *javanicus*, iv 269
 nariyanus, *Cervus*, iv 141
 nasalis, *Gazella thomsoni*, iii 83
 " *Rhinoceros*, v 49
 naso, *Gazella*, iii 80
 naso-maculata, *Antilope*, iii 146
 nasoguttata, *Madoqua* (*Rhyncho-*
 tragus), ii 194
 nasoguttatus, *Madoqua* (*Rhyn-*
 chotragus), ii 194
 nasomaculata, *Cerophorus* (*Ga-*
 zella), iii 146
 nasomaculatus, *Addax*, iii 146, 147
 " " *nasomacula-*
 tus, iii 149
 Natal Duiker, ii 68
 natalensis, *Cephalophus*, ii 68
 " " *natalensis*, ii
 69
 " *Raphicerus campes-*
 tris, ii 151
 natunæ, *Tragulus*, iv 291
 natunensis, *Sus vittatus*, iv 329
 nayaur, *Ovis*, i 97, 126
 ndjiriensis, *Eudorcas*, iii 84
 neglectus, *Cervus elaphus*, iv 124
 nehringi, *Sus celebensis*, iv 333
 nehringii, *Sus*, iv 333
 nelsoni, *Odocoileus virginianus*, iv
 168

- nelsoni, *Ovis canadensis*, i 114
 nemoralis, *Odocoileus virginianus*,
 iv 170
 Nemorhædus, i 186, 202
 " argyrochaetes, i 197
 " bubalinus, i 193
 " caudatus, i 208
 " crispus, i 200
 " " pryeri, i 201
 " goral, i 203, 204
 " griseus, i 206
 " henryanus, i 206
 " hodgsoni, i 206
 " raddeanus, i 209
 " rubida, i 192
 " sumatrensis, i 188
 " " bubalinus,
 " i 193
 " " humei, i 195
 " " jamrachi, i
 " 191
 " " milne -ed-
 " wardsi, i 190
 " " robinsoni, i
 " 189
 " " rodoni, i 195
 " " rubidus, i
 " 192
 " " swetten-
 " hami, i 189
 " swettenhami, i 189
 " swinhoei, i 201
 Nemorhedus, i 202
 " bubalina, i 193
 " crispa, i 200
 " edwardsii, i 190
 " goral, i 204
 " rubida, i 192
 " swinhoei, i 201
 Nemorhædus, i 186
 " bubalina, i 193
 " edwardsii, i 190
 nemorivaga, *Mazama*, iv 209
 nemorivagus, *Cervus*, iv 209
 Nemotragus, i 186
 " argyrochaetes, i 196
 Neoauchenia, iv 301
 " glama, iv 302
 Neosus cebifrons, iv 336
 Neotragus, ii 158, 159, 172, v 110
 " (subgenus) ii 168
 " batesi, ii 166
 " campestris, ii 148
 " damarensis, ii 184
 " haggardi, ii 140
 " harrisoni, ii 167
 " *Neotragus hemprichianus*, ii 174
 " " *hemprichii*, ii 175
 " (Hylarnus) batesi, ii
 " 166
 " " harrisoni, ii 167
 " " kirki, ii 187
 " " livingstonianus, ii 162
 " " " livingstonianus,
 " ii 163
 " " typicus, ii 163
 " " zuluensis, ii 164
 " melanotis, ii 156
 " moschatus, ii 160
 " " akeleyi, ii 161
 " " deserticola, ii
 " 162
 " " moschatus, ii
 " 160
 " (Nesotragus) living-
 " stonianus, ii 162
 " " moschatus, ii
 " 159
 " nigricaudatus, ii 137
 " pygmæa, ii 169
 " pygmæus, ii 169, 170,
 " v 110
 " saltianus, ii 174
 " scoparius, ii 134
 " tragulus, ii 148
 nepalensis, *Cervus*, iv 71
 Nesotragus kirchenpaueri, ii 160
 " livingstonei, ii 162
 " livingstonianus, ii 162
 " " zuluensis,
 " ii 164
 " moschatus, ii 159
 " " deserticola, ii 162
 " saltianus, ii 175
 " zuluensis, ii 164
 neumanni, *Bos caffer*, i 53
 " Bubalis, ii 18
 " Kobus kob, ii 262
 " Procavia (*Dendrohy-*
 " *rax*), v 77
 " *Raphicerus campe-*
 " *stris*, ii 151
 niadensis, *Sus vittatus*, iv 328
 nicobaricus, *Sus vittatus*, iv 327
 nictitans, *Antilope*, ii 107
 niediecki, *Bubalis lelwel*, ii 23
 " *Taurotragus oryx*, iii
 " 213
 nigellus, *Cervus unicolor*, iv 87
 niger, *Capreolus vulgaris*, iv 220
 " *Cephalophus*, ii 91
 " *Ceratorhinus*, v 50

- niger, *Cervus*, iv 71
 „ *Dama platyceros*, iv 43
 „ *Dicotyles tajaçu*, iv 382
 „ *Hippotragus*, iii 141
 „ „ *niger*, iii 143
 „ *Kemas*, i 210
 „ *Rhinoceros*, v 54
 „ *Sus*, iv 330
nigeriensis, *Redunca redunca*, ii 219
nigra, *Antilope*, iii 141
 „ *Rusa aristotelis*, iv 72
nigrescens, *Giraffa reticulata*, iii 239
nigricans, *Cervus unicolor*, iv 86
 „ *Kobus kob*, ii 258
 „ *Procavia*, v 61
 „ *Tragulus javanicus*, iv 272
nigricaudata, *Ourebia*, ii 137
nigricaudatus, *Nanotragus*, ii 137
nigricollis, *Tragulus javanicus*, iv 276, 294
nigrifrons, *Cephalophus*, ii 72
nigrimontana, *Ovis ammon*, i 103, v 98
nigrinotatus, *Tragelaphus scriptus*, iii 163
nigripes, *Sus scrofa*, iv 317
nigrocinctus, *Tragulus javanicus*, iv 276, 294
nigroscapulata, *Adenota*, ii 265
nigroscapulatus, *Kob kob*, ii 265
nigrum, *Cephalopidium*, ii 91
 Nilgai, iii 227
 Nilgiri Tahr, i 177
niphæcus, *Ovibos moschatus*, i 228
nippon, *Cervus nippon*, iv 108
nivicola, *Ovis canadensis*, i 121
noacki, *Bubalis tora*, ii 13
noëvellianus, *Hippelaphus*, iv 92
nostras, *Urus*, i 35
notata, *Adenota kob*, ii 263
 „ *Gazella granti*, iii 93
notatus, *Kob kob*, iii 263
Notophorus, iv 374
 „ *pecari*, iv 375
 „ *torquatus*, iv 380
Nototragus, ii 155
 „ *melanotis*, ii 157
 „ *neumanni*, ii 151
Nubian Ibex, i 153
nubiana, *Capra*, i 153
 „ *Capra nubiana*, i 154
nubica, *Antilope ensicornis*, iii 127
nublanus, *Ussa*, iv 90
nudipalpebra, *Cervus*, iv 49
nuni, *Bos caffer*, v 97
Nwa-thamin, iv 102
Nyala, iii 180
 „ *Mountain*, iii 183
Nyala, iii 151
 „ *angasi*, iii 180
nyansæ, *Cephalophus grimmi*, ii 118
 „ „ (*Guevei*), ii 103
 „ „ *nyasæ*, ii 103
 „ *Potamochoerus chœropotamus*, iv 354
Nyctochœrus, iv 348
 „ *hassama*, iv 357
nyikæ, *Madoqua kirki*, ii 189
obscurus, *Tragelaphus scriptus*, iii 157
Ocapia, iii 258
 „ *johnstoni*, iii 258
occidentalis, *Antilope dama*, iii 104
 „ *Bubalus pumilus*, i 69
 „ *Cervus canadensis*, ii 132
 „ *Ovis musimon*, i 75
 „ *Redunca arundinum*, ii 210
occidento-sardinensis, *Ovis musimon*, v 97
ocularis, *Antilope*, ii 113
Odocelus, iv 154
 „ *virginianus louisianæ*, iv 162
Odocoileus, iv 153
 „ *acapulcensis*, iv 167
 „ *americanus*, iv 156
 „ „ *americanus*, iv 159
 „ „ *borealis*, iv 160
 „ „ *louisianæ*, iv 162
 „ „ *macrourus*, iv 161
 „ „ *osceola*, iv 163
 „ *antisensis*, iv 197
 „ *battyi*, iv 164
 „ *cerrosensis*, iv 180
 „ *columbianus*, iv 182
 „ „ *columbianus*, iv 183
 „ „ *crooki*, iv 185
 „ „ *scaphiotus*, iv 184

- Odocoileus columbianus sitkensis*,
 iv 184
 „ *columbicus*, iv 172
 „ *costaricensis*, iv 170
 „ *couesi*, iv 164
 „ *crooki*, iv 185
 „ *dickii*, iv 194
 „ *gymnotis*, iv 173
 „ *hemionus*, iv 176, 177
 „ *hemionus californicus*,
 iv 179
 „ „ *canus*, iv 181
 „ „ *cerrosensis*,
 iv 180
 „ „ *eremicus*, iv 180
 „ „ *hemionus*, iv 178
 „ „ *peninsulæ*, iv
 181
 „ „ *virgultus*, iv 179
 „ *lasiotis*, iv 172
 „ *leucurus*, iv 162
 „ *louisianæ*, iv 162
 „ *margaritæ*, iv 174
 „ *mexicanus*, iv 165
 „ *nelsoni*, iv 168
 „ *osceola*, iv 163
 „ *peruvianus*, iv 175
 „ *philippii*, iv 175
 „ *rothschildi*, iv 171
 „ „ *chiriquensis*,
 iv 172
 „ „ *rothschildi*,
 iv 171
 „ *sinaloæ*, iv 166
 „ *spelæus*, iv 155
 „ *spinosus*, iv 174
 „ *texanus*, iv 163
 „ *texensis*, iv 163
 „ *thomasi*, iv 168
 „ *toltecus*, iv 167
 „ *truei*, iv 169
 „ *virginianus*, iv 155, 156
 „ „ *acapulcensis*, iv
 167
 „ „ *battyi*, iv 164
 „ „ *borealis*, iv 160
 „ „ *chiriquensis*, iv
 172
 „ „ *columbicus*, iv
 172
 „ „ *costaricensis*, iv
 170
 „ „ *couesi*, iv 164
 „ „ *gymnotis*, iv
 173
 „ „ *lasiotis*, iv 172
- Odocoileus virginianus leucurus*,
 iv 162
 „ „ *louisianæ*, iv 162
 „ „ *macrourus*, iv
 161
 „ „ *margaritæ*, iv
 174
 „ „ *mexicanus*, iv
 165
 „ „ *nelsoni*, iv 168
 „ „ *nemoralis*, iv
 170
 „ „ *osceola*, iv 162
 „ „ *peruvianus*, iv
 175
 „ „ *rothschildi*, iv
 171
 „ „ *sinaloæ*, iv 166
 „ „ *spinosus*, iv 174
 „ „ *texanus*, iv 163
 „ „ *thomasi*, iv 168
 „ „ *toltecus*, iv 167
 „ „ *truei*, iv 169
 „ „ *virginianus*, iv
 159
 „ „ *virgultus*, iv 179
Odontocælus, iv 154
 „ „ *americanus*, iv 156
 „ „ *americanus couesi*,
 iv 164
 „ „ *louisianæ*, iv
 162
 „ „ *macrourus*, iv
 161
 „ „ *osceola*, iv 163
 „ „ *texensis*, iv 163
 „ „ *battyi*, iv 164
 „ „ *bezoarticus*, iv 189
 „ „ *cerrosensis*, iv 180
 „ „ *columbianus*, iv 182
 „ „ „ *scaphiotus*,
 iv 184
 „ „ „ *sitkensis*, iv
 184
 „ „ *costaricensis*, iv 170
 „ „ *crooki*, iv 185
 „ „ *hemionus*, iv 177
 „ „ „ *californicus*, iv
 179
 „ „ „ *canus*, iv 181
 „ „ „ *eremicus*, iv
 180
 „ „ „ *peninsulæ*, iv
 181
 „ „ „ *virgultus*, iv
 179

- Odontocœlus lichtensteini*, iv 165
 „ *nelsoni*, iv 168
 „ *nemoralis*, iv 170
 „ *rothschildi*, iv 171
 „ *sinaloæ*, iv 166
 „ *thomasi*, iv 168
 „ *toltecus*, iv 167
 „ *truii*, iv 169
Odontodorcas, iv 3
 „ *moschiferus*, iv 5
officialis, Sambar, iv 92
ogilbyi, *Cephalophus*, ii 83, 84
oi, *Sus barbatus*, iv 341
Okapia, iii 258
 „ *erikssoni*, iii 259
 „ *johnstoni*, iii 258
 „ *liebrechtsi*, iii 259
oleotragus, *Antilope*, ii 204
Olidosus, iv 374
olivaceus, *Tragelaphus scriptus*,
 iii 173
Ollen, iv 126
Onager, v 12, 14
onager, *Equus*, v 12
onctuosus, *Cobus*, ii 242
Onototragus megaceros, ii 251
Onotragus, ii 246
 „ *lechee*, ii 247
Onyx onyx, iii 120
onyx, *Onyx*, iii 120
operculatus, *Catoblepas*, ii 51
ophion, *Ovis*, i 79
 „ „ *orientalis*, i 79
Opsiceros, v 51
 „ *bicornis*, v 54
 „ *simus*, v 56
Orasius, iii 236
 „ *camelopardalis*, iii 241
Oreamnos, i 217
 „ *americanus*, i 218, 219
 „ „ *americanus*, i 219
 „ „ *columbiæ*, i 220
 „ „ *kennedyi*, i 221
 „ „ *missoulæ*, i 220
 „ *kennedyi*, i 221
 „ *montanus*, i 218
 „ „ *columbiæ*, i 220
 „ „ *columbianus*, i
 220
 „ „ *missoulæ*, i 220
 „ „ *montanus*, i 219
Oreamnus, i 217
 „ *kennedyi*, i 221
 „ *montanus*, i 218
 „ „ *columbianus*, i
 220
Oreamnus montanus kennedyi, i
 221
 „ „ *missoulæ*, i 220
Oreas, iii 207
 „ *canna*, iii 209, 213
 „ „ *livingstoni*, iii 212
 „ *colini*, iii 216
 „ *derbianus*, iii 216
 „ *derbii*, iii 219
 „ *gigas*, iii 219
 „ *kaufmanni*, iii 214
 „ *livingstonii*, iii 212
 „ *oreas*, iii 210
 „ „ *kaufmanni*, iii 214
 „ *oryx*, iii 210
 „ „ *niediecki*, iii 213
 „ *pattersonianus*, iii 214
 „ *selousi*, iii 213
 „ *triangularis*, iii 210
oreas, *Boselaphus*, iii 216
 „ *Taurotragus (Boselaphus)*,
 iii 217
Oreodorcas, ii 202
 „ *fulvorufula*, ii 221
Oreotragus, ii 123
 „ *aceratos*, ii 130
 „ *griseus*, ii 156
 „ *hastatus*, ii 135
 „ *megalotis*, ii 195
 „ *oreotragus*, ii 123.
 124, 126
 „ „ *aceratos*, ii 130
 „ „ *aureus*, ii 127
 „ „ *oreotragus*, ii
 126
 „ „ *porteousi*, ii 130
 „ „ *saltatrixoides*, ii
 126
 „ „ *somaliæus*, ii 128
 „ „ *schillingsi*, ii 127
 „ *saltator*, ii 124
 „ „ *aceratos*, ii 130
 „ „ *porteusi*, ii 130
 „ „ *saltatrixoides*, ii
 126
 „ „ *schillingsi*, ii 127
 „ „ *somaliæus*, ii 128
 „ „ *typicus*, ii 126
 „ *saltatrix*, ii 124
 „ *saltatrixoides*, ii 126
 „ *schillingsi*, ii 127
 „ *scoparius*, ii 133
 „ *somaliæus*, ii 128
 „ *tragulus*, ii 147
 „ *typicus*, ii 124
oreotragus, *Antilope*, ii 204

oreotragus, *Oreotragus*, ii 123, 124
 „ „ *oreotragus*, ii 126
Orias, iii 207
Oribi, ii 134
oribi, *Ourebia*, ii 134
Oribia, ii 132
 „ *cottoni*, ii 144
 „ *goslingi*, ii 143
 „ *haggardi*, ii 140
 „ *hastata*, ii 135
 „ *kenyæ*, ii 141
 „ *microdon*, ii 142
 „ *montana*, ii 138
 „ *nigricaudata*, ii 137
 „ *scoparia*, ii 134
orientalis, *Antilope*, iii 35
 „ „ *dama*, iii 107
 „ *Bubalus pumilus*, i 58
 „ *Cephalophus castaneus*, v 106
 „ *Ovis*, i 77, 78
 „ „ *orientalis*, i 79
Oritragus, ii 123
orleansi, *Elephas africanus*, v 90
ornata, *Ammotragus lervia*, i 125
 „ *Rupicapra rupicapra*, i 182
ornatus, *Tragelaphus scriptus*, iii 175
Orthægoceros, v 99, 112
Orthagoceros, i 129, v 99, 112
orthopodicus, *Sika*, iv 107
Oryx, *Arabian*, iii 130
 „ *Beatrix*, iii 130
 „ *White*, iii 127
Oryx, iii 118, 127
 „ *addax*, iii 147
 „ *algazel*, iii 126, 127
 „ „ *algazel*, iii 128
 „ „ *dammah*, iii 129
 „ *annectens*, iii 125
 „ *beatrix*, iii 130
 „ *beisa*, iii 122, 125
 „ „ *annectens*, iii 125
 „ „ *beisa*, iii 123
 „ „ *callotis*, iii 125
 „ „ *gallarum*, iii 124
 „ *bezoarticus*, iii 127
 „ *biessa*, iii 122
 „ *callotis*, iii 125
 „ *capensis*, iii 120
 „ *gazella*, iii 119, 120
 „ *leucoryx*, iii 127, 129
 „ „ *pallasi*, iii 130
 „ *nasomaculatus*, iii 147
 „ *oryx*, iii 120

oryx, *Antilope*, iii 119
 „ „ (*Bubalis*), iii 129
 „ *Taurotragus*, iii 208, 210
 „ „ *oryx*, iii 211
oryzus, *Axis*, iv 55
osborni, *Rangifer tarandus*, iv 252
osceola, *Odocoileus virginianus*, iv 162
osiris, *Gazella littoralis*, iii 78
oswelli, *Atelodus*, v 56
oswellii, *Rhinoceros*, v 56
Otelaphus, iv 154
 „ *macrootis*, iv 177
 „ *punctulatus*, iv 182
 „ *richardsonii*, iv 182
ourebi, *Ourebia*, ii 133, 134
Ourebia, ii 132, v 109
 „ *cottoni*, ii 144
 „ *gallarum*, ii 144
 „ *goslingi*, ii 143
 „ *haggardi*, ii 140
 „ *hastata*, ii 135
 „ *kenyæ*, ii 141
 „ *microdon*, ii 142
 „ *montana*, ii 138, v 109
 „ „ *æquatoria*, ii 140
 „ „ *montana*, ii 139, v 109
 „ *nigricaudata*, ii 137
 „ *oribi*, ii 134
 „ *ourebi*, ii 133, 134
 „ *scoparia*, ii 134
oureyby, *Calotragus*, ii 133
Oussa, iv 60
outreyanus, *Sambar*, iv 91
Ovibos, i 222
 „ *mackenzianus*, i 229
 „ *moschatus*, i 224
 „ „ *mackenzianus*, i 229
 „ „ *melvillensis*, i 228
 „ „ *moschatus*, i 225
 „ „ *niphæus*, i 228
 „ „ *typicus*, i 225
 „ „ *wardi*, i 227
 „ *pearyi*, i 227
 „ *wardi*, i 227
Ovis, i 73, v 97
 „ *alleni*, i 122
 „ *ammon*, i 92, 98, v 97, 109
 „ „ *ammon*, i 95
 „ „ *collium*, v 98
 „ „ *heinsi*, i 105
 „ „ *hodgsoni*, i 97, 98
 „ „ *humei*, i 105
 „ „ *jubata*, i 97
 „ „ *karelini*, i 104

Ovis ammon kozlovi, v 97

- „ „ littledalei, i 102
- „ „ mongolica, i 96
- „ „ nigrimontana, i 103, v 98
- „ „ poli, i 106, 107
- „ „ sairensis, i 101
- „ „ severtzovi, v 98
- „ „ storcki, i 100
- „ „ typica, i 95
- „ ammonoides, i 98
- „ (Ammotragus) lervia, i 123
- „ „ tragelaphus, i 123
- „ anatolica, i 81
- „ arcar, i 90
- „ „ arcar, i 90
- „ „ dolgopolovi, i 91
- „ „ varenzovi, i 91
- „ argali, i 92
- „ „ altaica, i 95
- „ „ dauricus, i 97
- „ „ mongolica, i 96
- „ aries, i 75
- „ arkal, i 90
- „ arkar, i 90, 107
- „ blanfordi, i 88
- „ blythi, i 98
- „ borealis, i 121
- „ „ lydekkeri, v 99
- „ brookei, i 98
- „ burriel, i 127
- „ californiana, i 113
- „ californianus, i 113
- „ californica, i 113
- „ canadensis, i 109, v 99
- „ „ alleni, i 122
- „ „ auduboni, i 113
- „ „ borealis, i 121, 122, v 99
- „ „ californiana, i 113
- „ „ canadensis, i 111
- „ „ cowani, i 120
- „ „ cremnobates, i 115
- „ „ dalli, i 118
- „ „ fannini, i 119
- „ „ gaillardii, i 116
- „ „ kenaiensis, i 119
- „ „ mexicana, i 116
- „ „ mexicanus, i 116
- „ „ nelsoni, i 114
- „ „ nivicola, i 121
- „ „ sierræ, i 115
- „ „ stonei, i 120
- „ „ typica, i 111
- „ cervina, i 109
- „ „ auduboni, i 113
- „ „ californiana, i 113
- „ „ cervina, i 111

Ovis cervina cremnobates, i 115

- „ „ dalli, i 118
- „ „ gaillardii, i 116
- „ „ mexicana, i 116
- „ „ mexicanus, i 116
- „ „ nelsoni, i 114
- „ „ sierræ, i 115
- „ collium, i 109, v 98
- „ cowani, i 120
- „ cycloceros, i 86, 88
- „ cylindricornis, i 131
- „ cypria, i 79
- „ cyprius, i 79
- „ dalai-lamæ, i 98
- „ dalli, i 118
- „ „ dalli, i 118
- „ „ fannini, i 119
- „ „ kenaiensis, i 119
- „ „ stonei, i 120
- „ darwini, i 97
- „ fannini, i 119
- „ gmelini, i 77, 80
- „ „ erskinei, i 82
- „ heinsi, i 105
- „ henrii, i 98
- „ hodgsoni, i 97
- „ jubata, i 96
- „ karelini, i 104, 105
- „ kozlovi, v 97
- „ laristanica, i 83
- „ lervia, i 123
- „ „ blainei, i 126
- „ „ lervia, i 124
- „ „ ornata, i 125
- „ „ sahariensis, i 125
- „ liardensis, i 120
- „ matschiei, i 75
- „ mexicanus, i 116
- „ middendorfi, v 99
- „ montana, i 84, 109
- „ „ dalli, i 118
- „ montanus, i 121, 218
- „ musimon, i 75, v 97
- „ „ corsico-sardinensis, v 97
- „ „ occidentalis, i 75
- „ „ occidendo-sardinensis, v 97
- „ „ orientalis, i 77
- „ (Musimon) orientalis, i 78
- „ musmon, i 75
- „ nahoor, i 126
- „ nahura, i 127
- „ nayaur, i 97, 126
- „ nelsoni, i 114
- „ nigrimontana, i 103

- Ovis nivicola*, i 121
 „ *ophion*, i 79
 „ „ *urmiana*, i 81
 „ *orientalis*, i 77, 78
 „ „ *anatolica*, i 81
 „ „ *erskinei*, i 82
 „ „ *gmellini*, i 80
 „ „ *isphaganica*, i 83
 „ „ *isphahanica*, i 83
 „ „ *ophion*, i 79
 „ „ *orientalis*, i 79
 „ „ *typica*, i 80, 82
 „ „ *urmiana*, i 81
 „ *ornata*, i 125
 „ *pallasi*, i 131
 „ *poli*, i 105, 106
 „ „ *adametzi*, v 99
 „ „ *karelini*, i 104, 106
 „ „ *typica*, i 107
 „ *poloi collium*, v 98
 „ „ *nigrimontana*, v 98
 „ (*Pseudois*) *nahura*, i 127
 „ *pygargus*, i 110
 „ *sairensis*, i 101
 „ „ *littledalei*, i 102
 „ *sculptorum*, i 106, 109
 „ *severtzovi*, v 98
 „ *stonei*, i 120
 „ *storcki*, i 100
 „ *strepsiceros*, iii 196
 „ *tragelaphus*, i 123
 „ *urmiana*, i 81
 „ „ *erskinei*, i 82
 „ „ *isphahanica*, i 83
 „ *vignei*, i 84
 „ „ *arkal*, i 90
 „ „ *arkar*, i 90
 „ „ *blanfordi*, i 88
 „ „ *cycloceros*, i 87, 88
 „ „ *punjabiensis*, i 86
 „ „ *typica*, i 85
 „ „ *varentsowi*, i 90
 „ „ *vignei*, i 85
oweni, *Procavia*, v 67
Ox, *Musk*, i 225
oxycephalus, *Sika*, iv 107
oxyotis, *Elephas africanus*, v 89
Ozanna, iii 131
 „ *equina*, iii 135
 „ *equinus bakeri*, iii 139
 „ „ *langheldi*, iii 138
 „ *niger*, iii 142
 „ *nigra*, iii 142
 „ *roosevelti*, iii 146
Ozelaphus, iv 186
 „ *bezoarticus*, iv 189
Ozotoceros, iv 186
 „ *campestris*, iv 189
paccerois, *Tetraceros*, iii 222
pacos, *Lama glama*, iv 302
Pala, iii 6
palæindicus, *Bos*, i 45
palavensis, *Sus barbatus*, iv 342
Palla, iii 6
pallah, *Antilope*, iii 6
pallasi, *Ægoceros*, i 131
 „ *Capra*, i 142
 „ *Oryx leucoryx*, iii 130
 „ *Phacochoerus*, iv 366
pallida, *Antilope tragulus*, ii 157
 „ *Procavia*, v 66
pallidior, *Cephalophus grimmii*, v 107
pallidus, *Kobus ellipsiprymnus*, ii 228
 „ *Tragulus kanchil*, iv 285
palmata, *Antilope*, iii 231
Palmatatus, iv 40
palmatatus, *Alces*, iv 230
paludosa, *Mazama*, iv 187
paludosus, *Cervus*, iv 186
palustris, *Cervus*, iv 187
Pampas Deer, iv 189
pandora, *Mazama*, iv 213
Panolia, iv 92
 „ *acuticornis*, iv 100
 „ *eldi*, iv 100
 „ „ *platyceros*, iv 104
 „ *frontalis*, iv 100
 „ *platycercus*, iv 104
 „ *platyceros*, iv 104
Pantholops, iii 18
 „ „ *hodgsoni*, iii 18
papuensis, *Sus*, iv 330
Para, iv 56
Paraceros, iv 186
paradoxa, *Rusa*, iv 67
Paralces, iv 229
 „ *alces*, iv 231
 „ *americanus*, iv 234
 „ *gigas*, iv 237
parallelus, *Tragulus javanicus*, iv 274
parva, *Rupicapra rupicapra*, i 183
parvipes, *Moschus moschiferus*, iv 8
pasan, *Antilope*, iii 120
Pasang, i 157
paschalis, *Sikaillus*, iv 107
Passalites, iv 198
 „ *nemorivagus*, iv 209

- pattersonianus, *Taurotragus oryx*,
 iii 214
 paucistriatus, *Equus burchelli*, v
 22
 pearsoni, *Rangifer tarandus*, iv 244
 pearyi, *Ovibos*, i 227
 ,, *Rangifer tarandus*, iv 256
 Pecari, *Tajacu*, iv 380
 Pecari, iv 379
 ,, *angulatus*, iv 383
 ,, *angulatus angulatus*, iv 383
 ,, *crassus*, iv 385
 ,, *humeralis*, iv 384
 ,, *sonoriensis*, iv 384
 ,, *yucatanensis*, iv 385
 ,, *crusnigrum*, iv 385
 ,, *nanus*, iv 386
 pecari, *Dicotyles*, iv 375
 ,, *pecari*, iv 376
 Peccari, White-lipped, iv 376
 Pediotragus, ii 146
 ,, *campestris*, ii 148
 ,, *horstocki*, ii 148
 ,, *neumanni*, ii 151
 ,, *rufescens*, ii 157
 ,, *tragulus*, ii 147
 ,, *grayi*, ii 147
 pediotragus, *Antilope*, ii 157
 pedi, *Capra sibirica*, i 151
 peeli, *Elephas africanus*, v 88
 pelandoc, *Tragulus kanchil*, iv 292
 Pelea, ii 199
 ,, *capreolus*, ii 199, 200
 Pelzeln's Gazelle, iii 79
 pelzelni, *Gazella*, iii 78
 penicillatus, *Sus*, iv 357
 peninsulæ, *Muntiacus muntjak*, iv
 18
 ,, *Odocoileus hemionus*,
 iv 181
 peninsularis, *Antilocapra ameri-*
 cana, iii 234
 ,, *Sus vittatus*, iv 327
 pennantii, *Axis*, iv 71
 penricei, *Equus*, v 36
 ,, *Kobus defassa*, ii 245
 peralta, *Giraffa camelopardalis*, iii
 246
 Père David's Deer, iv 152
 perflavus, *Tragulus stanleyanus*,
 iv 266, 294
 permista, *Gazella dama*, iii 106
 peronii, *Cervus*, iv 63
 perpusilla, *Antilope*, ii 170
 ,, *(Cephalophus)*,
 ii 101
 perpusillus, *Nanotragus*, ii 170
 Persian Ahu, iv 226
 ,, *Fallow Deer*, iv 45
 ,, *Gazelle*, iii 43
 persica, *Antilope dorcas*, iii 43
 personata, *Antilope*, ii 33
 perspisilla, *Antilope*, ii 101
 peruana, *Laema*, iv 302
 Peruvian Guemal, iv 197
 peruviana, *Mazama americana*, iv
 175
 peruvianus, *Odocoileus virgini-*
 anus, iv 175
 petersi, *Æpyceros melampus*, iii
 12
 ,, *Gazella granti*, iii 95
 Phacellochærus, iv 365
 ,, *haroja*, iv 371
 Phacocheirus, iv 365
 Phacochærus, iv 365
 ,, *æliani*, iv 371
 ,, *æthiopicus*, iv 366
 ,, *æliani*, iv 371
 ,, *æthiopicus*, iv
 367
 ,, *africanus*, iv
 373
 ,, *bufo*, iv 372
 ,, *delamerei*, iv
 371
 ,, *fossor*, iv 372
 ,, *massaicus*, iv
 370
 ,, *sundevalli*, iv
 368
 ,, *typicus*, iv 367
 ,, *africanus*, iv 373
 ,, *bufo*, iv 372
 ,, *aper æthiopicus*, iv
 366
 ,, *barbatus*, iv 366
 ,, *delamerei*, iv 371
 ,, *edentatus*, iv 371
 ,, *haroia*, iv 372
 ,, *massaicus*, iv 370
 ,, *pallasi*, iv 366
 ,, *scateri*, iv 372
 ,, *sundevalli*, iv 368
 ,, *typicus*, iv 366
 phalerata, *Antilope*, iii 157
 phaleratus, *Tragelaphus scriptus*,
 iii 157
 phalius, *Damaliscus korrigum*, ii
 46
 Phascochaeres, iv 365
 Phascochaerus, iv 365

- Phascochaerus africanus*, iv 373
Phascochæres æliani, iv 371
Phascochærus, iv 365
 " *æthiopicus*, iv 367
 " *africanus*, iv 373
 " *choeropotamus*, iv 351
 " *edentatus*, iv 366
 " *larvatus*, iv 349
philantomba, Antilope (*Cephalophus*), ii 93
philippensis, *Sus celebensis*, iv 333
philippii, *Odocoileus*, iv 175
philippinensis, *Sus verrucosus*, iv 333
philippinus, *Cervus unicolor*, iv 84
phillipsi, *Madoqua*, ii 177
 " " *phillipsi*, ii 178
Phöcochörus, iv 365
phylarchus, *Rangifer tarandus*, iv 245
piacentinii, *Madoqua*, ii 177
picta, Antilope, iii 225
 " *Capra hircus*, i 161
picticaudata, *Gazella (Procapra)*, iii 30
pictus, *Ægoceros*, i 161
 " *Boselaphus*, iii 226
 " *Potamochoerus porcus*, iv 359
 " *Tragelaphus scriptus*, iii 164
pierrei, *Tragulus kanchil*, iv 291
Pig, Bush, iv 351
pihillingisi, *Bubalus*, i 54
pinchacus, *Tapirus*, v 44
pinchaque, *Tapir*, v 44
pinchonianus, *Kemas*, i 207
pingshiangicus, *Muntiacus reevesi*, iv 30
pita, *Mazama*, iv 199
planiceps, *Sambar*, iv 92
Planiceros, i 40
planiceros, *Bos caffer*, i 66
planidens, *Sambar*, iv 91
platous, Antilope (*Cephalophus*), ii 107
platycercus, *Panolia*, iv 104
Platyceros, iv 40
platyceros, *Cervus*, iv 42
 " *Panolia*, iv 104
 " *Urebos*, i 30
platyotus, Antilope (*Cephalophus*), ii 108
platyrhinus, *Capricornis*, i 202
platyrhynchus, *Rangifer tarandus*, iv 243
pleiharicus, *Muntiacus muntjak*, iv 16
plumbeus, *Cervus capreolus*, iv 219
pluto, Antilope, ii 91
pococki, *Equus quagga*, v 23
Poëphagus, i 30
 " *grunniens*, i 31
 " *mutus*, i 31
poli, *Ovis*, i 105, 106
 " " *ammon*, i 106, 107
polii, *Caprovis*, i 107
Polish Stag, iv 126
polyodon, *Asinus*, v 9
Pookoo, ii 268
Poku, ii 268
porcinus, *Cervus (Hyelaphus)*, iv 54, 55
 " " *porcinus*, iv 56
porcorelianus, *Sika*, iv 107
Porcula, iv 343
 " *salvania*, iv 343
 " *taivana*, iv 322
Porcus, iv 344
 " *babyrussa*, iv 346
porcus, *Potamochoerus*, iv 357, 360
 " " *porcus*, iv 358
Portax, iii 224
 " *picta*, iii 226
 " *tragelaphus*, iii 226
 " *tragocamelus*, iii 226
porteousi, *Oreotragus oreotragus*, ii 130
porteri, *Bos banteng*, i 28
porteusi, *Oreotragus saltator*, ii 130
Potamochoerus, iv 348
 " *africanus*, iv 351
 " *albifrons*, iv 361
 " *capensis*, iv 351
 " *chæropotamus*, iv 350, 351
 " " *chæropotamus*, iv 352
 " " *dæmonis*, iv 354
 " " *johnstoni*, iv 355
 " " *keniæ*, iv 356
 " " *maschona*, iv 353
 " " *nyasæ*, iv 354
 " *dæmonis*, iv 354
 " *edwardsi*, iv 349
 " *hassama*, iv 357
 " *intermedius*, iv 361
 " *johnstoni*, iv 355
 " *koiropotamus*, iv 351
 " " *dæmonis*, iv 354
 " *larvatus*, iv 349

- Potamochærus larvatus* hova, iv 350
 „ „ *larvatus*, iv 350
 „ „ *madagascariensis*, iv 349
 „ *nyasæ*, iv 354
 „ *penicillatus*, iv 357
 „ *porcus*, iv 357, 360
 „ „ *albifrons*, iv 361
 „ „ *congius*, iv 361
 „ „ *pictus*, iv 359
 „ „ *porcus*, iv 358
 „ „ *ubangensis*, iv 360
Potamotragus, ii 63
 „ *melanoprymnus*, ii 64
pousarguesi, *Adenota*, ii 260
powelli, *Tragelaphus scriptus* iii 161
Præovibos, i 222
pretiellus, *Tragulus javanicus*, iv 274, 294
pretiosus, *Tragulus javanicus*, iv 273, 294
princeps, *Procavia brucei*, v 73
Probubalus, i 40
 „ (*Anoa*) *celebensis*, i 48
 „ *celebensis*, i 48
 „ *mindorensis*, i 47
Procapra, iii 29
 „ *altaica*, iii 39
 „ *gutturosa*, iii 35
 „ *picticaudata*, iii 30
 „ *przewalskii*, iii 33
Procavia, v 58
 „ (*subgenus*), v 58
 „ *abessinica minor*, v 66
 „ *abyssinica*, v 65
 „ „ *typica*, v 66
 „ *adametzi adametzi*, v 78
 „ „ *zenkeri*, v 79
 „ *alpini*, v 62
 „ *arborea*, v 77
 „ *bamendæ*, v 75
 „ *bettoni*, v 78
 „ *bounhioli*, v 74
 „ *brucei*, v 69
 „ „ *borana*, v 70
 „ „ *brucei*, v 69
 „ „ *granti*, v 71
 „ „ *hindei*, v 70
 „ „ *kempi*, v 72
 „ „ *maculata*, v 71
 „ „ *manningi*, v 72
 „ „ *princeps*, v 73
 „ „ *ruddi*, v 71
 „ „ *somalica*, v 70
Procavia brucei thomasi, v 72
 „ „ *typica*, v 69
 „ *burtoni*, v 64
 „ *butleri*, v 74
 „ *capensis*, v 58
 „ „ *capensis*, v 60
 „ „ *marlothi*, v 60
 „ „ *reuningi*, v 60
 „ „ *schultzei*, v 61
 „ „ *waterbergensis*, v 61
 „ „ *windhuki*, v 60
 „ *crawshayi*, v 79
 „ „ *crawshayi*, v 79
 „ „ *laikipia*, v 79
 „ *dæmon*, v 68
 „ (*Dendrohyrax*) *adametzi*, v 78
 „ (*Dendrohyrax*) *adametzi zenkeri*, v 79
 „ (*Dendrohyrax*) *adolphi-friederici*, v 79
 „ (*Dendrohyrax*) *arborea*, v 76
 „ „ *aschantiensis*, v 78
 „ „ *bettoni*, v 78
 „ „ *crawshayi*, v 79
 „ „ *dorsalis*, v 77
 „ „ *emini*, v 76
 „ „ *marinota*, v 78
 „ „ *neumanni*, v 77
 „ „ *scheelei*, v 75
 „ „ *scheffleri*, v 80
 „ „ *stuhlmanni*, v 77
 „ „ *terricola*, v 78
 „ „ *tessmanni*, v 79
 „ „ *valida*, v 75
 „ *dorsalis*, v 77
 „ *emini*, v 76
 „ „ *emini*, v 76
 „ „ *latrator*, v 76
 „ *erlangeri*, v 62
 „ *ferruginea*, v 66
 „ *frommi*, v 74
 „ *goslingi*, v 62
 „ *grayi*, v 77
 „ *habessinica*, v 65
 „ „ *habessinica*, v 66
 „ „ *minor*, v 66
 „ (*Heterohyrax*) *frommi*, v 74
 „ „ *münzeri*, v 74
 „ „ *schubotzi*, v 74
 „ *jacksoni*, v 38
 „ *johnstoni*, v 61

- Procavia kamerunensis*, v 75
 „ *kerstingi*, v 62
 „ *latastei*, v 69
 „ *lopesi*, v 67
 „ *mackinderi*, v 67
 „ „ *mackinderi*, v 67
 „ „ *zelotes*, v 67
 „ *matschiei*, v 68
 „ *muenzeri*, v 74
 „ *nigricans*, v 61
 „ *oweni*, v 67
 „ *pallida*, v 66
 „ *pumila*, v 73
 „ „ *pumila*, v 73
 „ „ *rudolfi*, v 73
 „ *ruficeps*, v 64
 „ *ruwenzorii*, v 66
 „ *scheelei*, v 75
 „ *schubotzi*, v 74
 „ *scioana*, v 62
 „ *sharica*, v 65
 „ *shoana*, v 62
 „ *slatini*, v 74
 „ *syriaca*, v 63
 „ „ *jayakari*, v 64
 „ „ *syriaca*, v 64
 „ „ *typica*, v 64
 „ *thomasi*, v 72
 „ *valida*, v 75
 „ *volkmanni*, v 69
 „ *welwitschii*, v 68
Procerus, iv 238
Procervus, iv 238
Prongbuck, iii 231
Pronghorn, iii 231
Prox, iv 10
 „ *albipes*, iv 21
 „ *melas*, iv 21
 „ *moschatus*, iv 12
 „ *muntjac*, iv 12
 „ *ratva*, iv 21
 „ *reevesii*, iv 27
 „ *stylocerus*, iv 21
pryeri, *Nemorhædus crispus*, i 201
pryerianus, *Capricornis crispus*, i 201
przewalskii, *Equus caballus*, v 7
 „ *Gazella (Procapa)*, iii 32
Pseudaxis, iv 106
 „ *Cervus*, iv 112, 116
 „ *mantchurica*, iv 110
 „ *sika*, iv 107
 „ *taivanus*, iv 111
Pseudocervus, iv 116
 „ *wallichi*, iv 142
Pseudois, i 126
 „ *burrhel*, i 127
 „ *nahoor*, i 127
 „ *nayaur*, i 127
Pseudois nahoor, i 126
 „ *nahura*, i 127
ptoox, *Antilope (Cephalophus)*, ii 107
ptox, *Antilope*, ii 108
Pudella, iv 217
 „ *mephistophiles*, iv 217
Pudu, iv 214
 „ (subgenus), iv 215
 „ *chilensis*, iv 215
 „ (*Pudella*) *mephistophiles*, iv 217
 „ *pudu*, iv 215
pudu, *Pudu*, iv 215
Pudua, iv 214
 „ *humilis*, iv 215
 „ *mephistophiles*, iv 217
 „ *pudu*, iv 215
Puku, ii 268
pumila, *Procavia*, v 73
 „ „ *pumila*, v 73
pumilio, *Cervus*, iv 54
 „ *Elephas africanus*, v 87
pumilus, *Bubalus*, i 62
 „ *Bos*, i 66, 68
punctatus, *Tragelaphus scriptus*, iii 165
punctulata, *Reduncina*, iv 182
punctulatus, *Cariacus*, iv 182
 „ *Cephalophus*, ii 64, 94
punjabiensis, *Ovis vignei*, i 86
purpurescens, *Damaliscus korrigum*, v 104
pusilla, *Mazama*, iv 182
pusillus, *Eucervus*, iv 182
pygarga, *Antilope*, ii 33, iii 110
 „ *Damalis*, ii 33
pygargus, *Capra*, iii 110
 „ *Capreolus*, iv 226
 „ „ *pygargus*, iv 227
 „ *Damaliscus*, ii 34
 „ *Ovis*, i 110
pygmæa, *Capra*, ii, 169
 „ *Antilope*, ii 100
pygmæus, *Neotragus*, ii 169, v 110
 „ *Tragulus*, ii 101, iv 281
pyrenaica, *Capra*, i 138
 „ „ *pyrenaica*, i 139
 „ *Rupicapra rupicapra*, i 183
pyrenaicus, *Ibex*, i 138
Pyrenean Ibex, i 138

- quagga, *Equus*, v 19
 quaccha, *Equus*, v 19
 Quacha, v 20, 21
 quacha, *Equus*, v 19
 quadrimammis, *Capra*, i 174
 quadricornis, *Tetracerus*, iii 220, 221
 Quagga, v 20, 21
 quagga, *Equus* (*Hippotigris*), v 19, 20
 Quaha, v 20, 21

 radcliffei, *Bos caffer*, i 55
 raddeanus, *Nemorhædus*, i 209
 raddei, *Capra*, i 138
 Ragoa, iii 31
 rahatensis, *Bubalis tora*, ii 11
 raineyi, *Gazella granti*, iii 92
 ramosianus, *Ussa*, iv 90
 Rangifer, iv 238
 „ *arcticus*, iv 254
 [Rangifer *arcticus*], *var. sibiricus*, iv 244
 „ „ „ *spitzbergensis*, iv 243
 Rangifer *caribou*, iv 246
 „ „ *caribou*, iv 246
 „ „ *sylvestris*, iv 248
 „ *dawsoni*, iv 251
 „ *excelsifrons*, iv 253
 „ *fennicus*, iv 243
 „ *fortidens*, iv 251
 „ *granti*, iv 253
 „ *grœnlandicus*, iv 256
 „ *montanus*, iv 249
 „ *osborni*, iv 252
 „ *pearyi*, iv 256
 „ *phylarchus*, iv 245
 „ *platyrhynchus*, iv 243
 „ *spitzbergensis*, iv 243
 „ *stonei*, iv 251
 „ *tarandus*, iv 239
 „ „ *arcticus*, iv 254
 „ „ *caribou*, iv 246
 „ „ *var. cylindricornis*, iv 241
 „ „ *dawsoni*, iv 251
 „ „ *excelsifrons*, iv 253
 „ „ *fennicus*, iv 243
 „ „ *fortidens*, iv 251
 „ „ *granti*, iv 253
 „ „ *grœnlandicus*, iv 256
 „ „ *montanus*, iv 249
 „ „ *osborni*, iv 252
 „ „ *pearsoni*, iv 244

 Rangifer *tarandus pearyi*, iv 256
 „ „ *phylarchus*, iv 245
 „ „ *platyrhynchus*, iv 243
 „ „ *sibiricus*, iv 244
 „ „ *spetzbergensis*, iv 243
 „ „ *stonei*, iv 251
 „ „ *sylvestris*, iv 248
 „ „ *tarandus*, iv 241
 „ „ *terrænovæ*, iv 248
 „ „ *typicus*, iv 241
 „ „ *terrænovæ*, iv 248
 rangifer, *Tarandus*, iv 239
 Raphiceros, ii 146
 „ (*Nototragus*) *melanotis*, ii 155
 „ *sharpei*, ii 153
 Raphiceros, ii 145
 „ (subgenus), ii 146
 „ *campestris*, ii 146, 148
 „ „ *campestris*, ii 149
 „ „ *capricornis*, ii 153
 „ „ *natalensis*, ii 151
 „ „ *neumanni*, ii 151
 „ „ *stigmaticus*, ii 152
 „ „ *melanotis*, ii 156
 „ „ *neumanni*, ii 151
 „ „ *capricornis*, ii 153
 „ „ *sharpei*, ii 153
 „ „ *colonicus*, ii 155
 „ „ *sharpei*, ii 154

 ratva, *Prox*, iv 21
 ratwa, *Cervus*, iv 21
 ravulus, *Tragulus kanchil*, iv 288
 ravus, *Tragulus*, iv 286
 readi, *Bos gaurus*, i 20
 Recervus, iv 92
 „ *duvaucellii*, iv 94
 reclinis, *Bubalus*, i 68
 recticornis, *Gazella*, iii 119
 Recurvus, iv 92
 Red Brocket, iv 200
 „ *Deer*, iv 118
 „ *River-Hog*, iv 358
 „ *Sheep*, i 78
 „ *Stag, Short-faced Carpathian*, iv 125
 Redunca, ii 202, v 110
 „ (subgenus), ii 210

- Redunca arundinum*, ii 205
 „ „ *arundinum*, ii 206
 „ „ *occidentalis*, ii 210
 „ *bohor*, ii 214
 „ *capreolus*, ii 200
 „ *chanleri*, ii 223
 „ *defassa*, ii 232
 „ *electragus*, ii 204, 221
 „ (*Electragus*) *arundinum*, ii 203
 „ *fulvorufula*, ii 220, 221
 „ „ *chanleri*, ii 223
 „ „ *fulvorufula*, ii 222
 „ „ *shoana*, ii 224
 „ *isabellina*, ii 204
 „ „ *var. algoënsis*, ii 205
 „ „ „ *caffra*, ii 205
 „ „ „ *multiannulata*, ii 205
 „ *landii*, ii 221
 „ *montana*, ii 138
 „ *nagor*, ii 211
 „ *redunca*, ii 211, 212, v 110
 „ „ *bohor*, iii 214
 „ „ *cottoni*, ii 217, v 110
 „ „ *donaldsoni*, ii 217
 „ „ *nigeriensis*, ii 219
 „ „ *redunca*, ii 213
 „ „ *tohi*, ii 217
 „ „ *ugandæ*, ii 220
 „ „ *wardi*, ii 215
 „ *scoparia*, ii 133
 „ *thomasinæ*, ii 205
redunca, *Redunca*, ii 211, 212, v 110
 „ „ *redunca*, ii 213
Reduncina, iv 154
 „ *leucura*, iv 162
 „ *mexicana*, iv 165
 „ *nemoralis*, iv 170
 „ *punctulata*, iv 182
 „ *savannarum*, iv 174
 „ *similis*, iv 185
 „ *virginiana*, iv 156
reduncus, *Electragus*, ii 204, 211, 214
Reedbuck, ii 205
reevesi, *Muntiacus*, iv 27
 „ „ *reevesi*, iv 28
reevesii, *Cervus*, iv 27
regia, *Antilope*, ii 169
regius, *Nanotragus*, ii 170
regulus, *Sikaillus*, iv 107
reichei, *Catoblepas*, ii 55
Reindeer, iv 240, 241
rendilis, *Æpyceros melampus*, iii 11
reperticia, *Mazama tema*, iv 207
reticulata, *Giraffa*, iii 236
 „ „ *reticulata*, iii 238
reticulatus, *Giraffa*, iii 237
reuningi, *Procavia capensis*, v 60
reversa, *Antilope*, ii 211
rex, *Sikaillus*, iv 107
Rhaphiceros, ii 146
 „ *campestris*, ii 148
 „ „ *neumanni*, ii 151
 „ „ *typicus*, ii 149
 „ *horstocki*, ii 148
 „ „ *natalensis*, ii 151
 „ *melanotis*, ii 156
 „ *neumanni stigmaticus*, ii 152
 „ *sharpei colonicus*, ii 155
Rhaphiceros campestris capricornis, ii 153
Rhaphoceros, ii 145
Rhebok, *Roi*, ii 221
 „ *Vaal*, ii 200
rhenanus, *Capreolus*, iv 221
 „ *Cervus*, iv 124
Rhim, iii 60, 68
Rhinaster, *White*, v 55
 „ *Zwaart*, v 54
Rhinaster, v 52
 „ *bicornis*, v 54
 „ *keitloa*, v 54
 „ *oswellii*, v 56
 „ *simus*, v 56
Rhinoceros, *Black*, v 54
 „ *Burchell's*, v 56
 „ *Great Indian*, v 48
 „ *Square-mouthed*, v 56
 „ *White*, v 56
Rhinoceros, v 46
 „ (subgenus), v 46
 „ *africanus*, v 53
 „ *asiaticus*, v 48
 „ *bicornis*, v 52
 „ „ *bicornis*, v 54
 „ „ *capensis*, v 53

- Rhinoceros bicornis cucullatus, v 55
 „ „ holmwoodi, v 54
 „ „ somaliensis, v 55
 „ „ sumatrensis, v 50
 „ burchellii, v 56
 „ camperi, v 54
 „ camus, v 56
 „ vel Ceratorhinus (crossi) lasiotis, v 51
 „ (Ceratorhinus) sumatrensis, v 50
 „ vel Ceratorhinus, sumatrensis, v 50
 „ crossei, v 51
 „ cucullatus, v 55
 „ (Dicerorhinus) sumatrensis, v 49
 „ (Diceros) bicornis, v 52, 54
 „ „ simus, v 55, 56
 „ (Eurhinoceros) unicornis, v 48
 „ floweri, v 49
 „ holmwoodi, v 54
 „ indicus, v 48
 „ inermis, v 49
 „ javanicus, v 49
 „ keitloa (orketloa), v 54
 „ lasiotis, v 51
 „ nasalis, v 49
 „ niger, v 54
 „ oswellii, v 56
 „ simus, v 55
 „ „ cottoni, v 56
 „ „ simus, v 56
 „ sondaicus, v 3, 48, 50
 „ stenocephalus, v 48
 „ sumatranus, v 50
 „ sumatrensis, v 49
 „ „ blythi, v 50
 „ „ lasiotis, v 51
 „ „ niger, v 50
 „ „ sumatrensis, v 50
 „ „ typicus, v 50
 „ „ unicornis, v 47
 Rhinocærus, v 39
 „ „ sumatranus, v 40
 rhionis, Sus vittatus, iv 327
 River-Hog, iv 358
 Rhynchotragus, ii 183
 „ „ cavendishi, ii 185
 Rhynchotragus cavendishi minor, ii 187
 „ „ cordeauxi, ii 182
 „ „ damarensis, ii 184
 „ „ „ variani, ii 185
 „ „ erlangeri, ii 182
 „ „ guentheri smithi, ii 194
 „ „ „ wroughtoni, ii 193
 „ „ kirki, ii 188
 „ „ „ nyikæ, ii 189
 „ „ nasoguttatus, ii 194
 Rib-faced Deer, iv 14
 richardsonii, Cervus, iv 182
 Rietbok, ii 205
 rimator, Hylochærus meinertzhageni, iv 364
 ringens, Dicotyles pecari, iv 378
 riparius, Kobus kob, v 111
 risia, Damalis, iii 226
 Roan Antelope, iii 135
 robertsi, Cephalophus natalensis, ii 70
 „ „ Gazella granti, iii 91
 „ „ Kobus (Onotragus), ii 249
 robinsoni, Capricornis sumatrensis, i 189
 „ „ Muntiacus muntjak, iv 18
 Robus, ii 225
 rocherianus, Capricornis, i 202
 rodoni, Capricornis sumatrensis, i 195
 Roe, iv 220
 „ „ Siberian, iv 226
 Roebuck, iv 220
 Roi Rhebok, ii 221
 rondoni, Mazama, iv 214
 Rooi Hartebeest, ii 25
 roosevelti, Bubalis lelwel, ii 24
 „ „ Cephalophus grimmi, ii 121
 „ „ Cervus, iv 132
 „ „ Gazella granti, iii 90
 „ „ Hippotragus niger, iii 146
 rosarianus, Ussa, iv 90
 rothschildi, Bubalis cokei, ii 16
 „ „ Elephas africanus, v 91
 „ „ Giraffa camelopardalis, iii 248, 251
 „ „ Odocoileus virginianus, iv 171

roualeyni, *Tragelaphus scriptus*,
 iii 176
 Roulin's Tapir, v 44
 roulini, *Tapirus*, v 44
 roxasianus, *Ussa*, iv 91
 Royal Antelope, ii 170
 ruahaensis, *Bubalus*, i 53
 ruahensis, *Bos caffer*, i 53
 rubeus, *Tragulus kanchil*, iv 283,
 294
 rubida, *Capricornis*, i 192
 rubidior, *Cephalophus rufilatus*,
 ii 89
 rubidus, *Capricornis sumatrensis*,
 i 192
 „ *Cephalophus*, ii 73
 „ *Muntiacus muntjak*, iv 16
 rubiginosus, *Ussa*, iv 91
 rubro-albescens, *Antelope*, ii 156
 Rucercus, iv 92
 ruceros, *Cervus*, iv 94
 Rucervus, iv 92
 „ *cambojensis*, iv 78, 98
 „ *duvaucelii*, iv 94
 „ *eldi*, iv 100
 „ *schomburgkii*, iv 98
 ruddi, *Procavia brucei*, v 71
 rudolfi, *Procavia pumila*, v 73
 rueppelli, *Gazella arabica*, iii 59
 rufa, *Antelope*, ii 211
 „ *Mazama*, iv 200
 rufescens, *Antelope*, ii 157
 ruficeps, *Procavia*, v 64
 ruficollis, *Gazella dama*, iii 106,
 107
 ruficrista, *Cephalophus*, ii 64
 ruffrons, *Gazella*, iii 61
 „ „ *ruffrons*, iii 63
 rufigianus, *Connochætes taurinus*
 (*vel johnstoni*), ii 57
 rufilatus, *Cephalophus*, ii 86
 „ „ *rufilatus*, ii 87
 rufina, *Gazella*, iii 66
 „ *Mazama*, iv 208
 rufopallidus, *Hippotragus*, iii 137
 rufulus, *Tragulus stanleyanus*, iv
 267
 rufus, *Cervus*, iv 67, 199, 208
 ruhahensis, *Bubalus*, i 53
 rupestris, *Antelope tragulus*, ii 147
 Rupicapra, i 179
 „ *americana*, i 218
 „ *capella*, i 180
 „ *dorcas*, i 180
 „ *europæa*, i 180
 „ *fæsula*, i 182

Rupicapra *hamulicornis*, i 180
 „ *ornata*, i 182
 „ *parva*, i 183
 „ *pyrenaica*, i 183
 „ *rupicapra*, i 180
 „ „ *asiatica*, i 185
 „ „ *caucasica*, i 183
 „ „ *fæsula*, i 182
 „ „ *ornata*, i 182
 „ „ *parva*, i 183
 „ „ *pyrenaica*, i 183
 „ „ *rupicapra*, i 181
 „ *tragus*, i 180
 „ „ *asiatica*, i 185
 „ „ *caucasica*, i 183
 „ „ *ornata*, i 182
 „ „ *pyrenaica*, i 183
 rupicapra, *Antelope*, iii 24
 „ *Capella*, i 218
 „ *Rupicapra*, i 180
 „ „ *rupicapra*, i 181
 Rusa, iv 73
 „ *Javan*, iv 67
 „ *Sumatran*, iv 67
 Rusa, iv 60, 64
 „ *alfredi*, iv 63
 „ *aristotelis*, iv 71
 „ „ *heteroceros*, iv 72
 „ „ *leschenaulti*, iv 72
 „ „ *nigra*, iv 72
 „ „ *unicolor*, iv 72
 „ *barandanus*, iv 85
 „ *basilanensis*, iv 85
 „ *brookei*, iv 80
 „ *calamianensis*, iv 59
 „ *culionensis*, iv 59
 „ *dejeani*, iv 82
 „ *dimorpha*, iv 94
 „ *equina*, iv 78
 „ „ *malaccensis*, iv 78
 „ „ *pennantii*, iv 72
 „ *francianus*, iv 85
 „ *hippelaphus*, iv 67, 71
 „ *japonica*, iv 107
 „ *kuhlii*, iv 61
 „ *lepida*, iv 150
 „ *mariannus*, iv 83
 „ *moluccensis*, iv 65
 „ *nigellus*, iv 87
 „ *nigricans*, iv 86
 „ *paradoxa*, iv 67
 „ *peronii*, iv 64
 „ *philippinus*, iv 84
 „ *steerii*, iv 86
 „ *swinhoii*, iv 81
 „ *tavistocki*, iv 70

- Rusa unicolor*, iv 72
 „ „ *equinus*, iv 79
Russa equina, iv 78
rusa, *Cervus*, iv 67
russeus, *Tragulus kanchil*, iv 289
russulus, *Tragulus kanchil*, iv 289
rutilus, *Sika*, iv 107
ruwanæ, *Eudorcas*, iii 84
ruwenzorii, *Procavia*, v 66

sabakiensis, *Bubalis cokei*, v 101
 „ „ *Eudorcas*, iii 84
Sable Antelope, iii 142
 „ „ *Harrisbuck*, iii 142
saccata, *Antilope*, iii 110
sacin, *Capra sibirica*, i 149
sahariensis, *Ammotragus lervia*, i 125
Saiga, iii 13, 15
 „ „ *colus*, iii 15
 „ „ *saiga*, iii 15
 „ „ *tartarica*, iii 13
 „ „ *tatarica*, iii 13, 14
saiga, *Antilope*, iii 13
Saigak, iii 15
Saikik, iii 46
sairensis, *Gazella subgutturosa*, iii 45
 „ „ *Ovis ammon*, i 101
sakeen, *Capra sibirica*, i 149
sakin, *Ibex*, i 149
Sala (Swahili), iii 95
saliens, *Antilope*, iii 110
salmi, *Gazella*, iii 64
saltans, *Antilope*, iii 110
saltator, *Oreotragus*, ii 124
saltatrix, *Antilope*, ii 123, iii 110
saltatrixoides, *Antilope*, ii 124
 „ „ *Oreotragus oreotragus*, ii 126
saltiana, *Madoqua*, ii 174
saltianus, *Neotragus*, ii 174
salvania, *Porcula*, iv 343
salvanus, *Sus* (*Porcula*), iv 343
Sambar, iv 60; (*Marathi* and *Dekhani*), 73
 „ „ *brachyrinus*, iv 92
 „ „ *colombertinus*, iv 91
 „ „ *combalbertinus*, iv 91
 „ „ *curvicornis*, iv 91
 „ „ *errardianus*, iv 92
 „ „ *joubertianus*, iv 92
 „ „ *latidens*, iv 92
 „ „ *lemanus*, iv 92
 „ „ *lignarius*, iv 92
 „ „ *longicornis*, iv 91

Sambar officialis, iv 92
 „ „ *outreyanus*, iv 91
 „ „ *planiceps*, iv 92
 „ „ *planidens*, iv 91
 „ „ *simoninus*, iv 92
 „ „ *verutus*, iv 92
Sangnai (*Manipuri*), iv 100
Sarao, i 188
sardous, *Sus scrofa*, iv 313
sartori, *Hippocamelus*, iv 205
sartorii, *Cervus*, iv 205
Sassaby, ii 38
saturatus, *Moschus*, iv 5
savannarum, *Cervus*, iv 174
saxicola, *Capricornulus*, i 200
saxonicus, *Cervus elaphus*, iv 124
sayga, *Capra*, iii 14
scaphiotus, *Odocoileus columbianus*, iv 184
scharicus, *Hippotragus equinus*, iii 139
scheelei, *Procavia* (*Dendrohyrax*), v 75
scheffleri, *Procavia* (*Dendrohyrax*), v 80
schillingsi, *Bos caffer*, i 54
 „ „ *Bubalis cokei*, v 101
 „ „ *Eudorcas*, iii 84
 „ „ *Giraffa*, iii 251
 „ „ *Oreotragus oreotragus*, ii 127
schizodonticus, *Sika*, iv 107
schomburgki, *Cervus* (*Rucervus*), iv 97
schottingi, *Cervus tarandus*, iv 239
schubotzi, *Procavia*, v 74
schultzei, *Cephalophus melanorheus*, v 107
 „ „ *Procavia capensis*, v 61
schulzi, *Connochætes albojubatus*, v 106
scioana, *Procavia*, v 62
scioanus, *Hyrax*, v 62
sclateri, *Cephalophus*, ii 64
 „ „ *Lithocranius walleri*, iii 116
 „ „ *Muntiacus lacrymans*, iv 26
 „ „ *Phacochoerus*, iv 372
scoparia, *Antilope*, ii 133
 „ „ *Oreotragus*, ii 133
Scopophorus, ii 132
 „ „ *hastatus*, ii 135
 „ „ *montanus*, ii 137, 138
 „ „ *ourebi*, ii 133
 „ „ „ *grayi*, ii 133

- Scopophorus scoparius*, ii 134
scoticus, *Cervus elaphus*, iv 123
scripta, Antilope, iii 152
 " *Capra*, ii 33
scriptus, *Tragelaphus*, iii 152, 153
 " *scriptus*, iii 155
Scrofa, iv 307
scrofa, *Sus*, iv 308, 315
 " *scrofa*, iv 313
scrophia, *Sus*, iv 310
scudaënsis, *Sika*, iv 107
sculptorum, *Ovis*, i 106, 109
scythica, Antilope, iii 14
sebecus, *Tragulus javanicus*, iv 277
seistanica, *Gazella*, iii 47
selbornei, *Bubalis caama*, ii 27
seleniceros, *Bubalus*, i 22
sellatus, *Cervus*, iv 149
selousi, *Damaliscus korrigum*, ii 44
 " *Elephas africanus*, v 87
 " *Equus quagga*, v 25
 " *Taurotragus oryx*, iii 213
 " *Tragelaphus spekei*, iii 189
semicircularis, *Hyrax*, v 59
senegalensis, Antilope, ii 39
 " *defassa*, ii 242
 " *ensicornis*, iii 127
 " *Damalis*, ii 42, 44
 " *Gazella* (*Eudorcas*) *lævipes*, iii 62
 " *Hippopotamus*, iv 388
senganus, *Kobus vardonii*, ii 269
sennaarensis, *Camelopardalis*, iii 244
 " *Sus scrofa*, iv 315
 " *vittatus*, iv 315
septentrionalis, *Bubalus bubalus*, i 46
Seren, iii 35
serengetæ, *Gazella granti*, iii 94
sericea, *Mazama*, i 218
Serow, i 188
 " *Formosan*, i 201
 " *Japanese*, i 200
 " *White-maned*, i 197
setosus, *Sus*, iv 310
severtzovi, *Ovis ammon*, v 98
severtzowi, *Capra*, i 134
 " *severtzowi*, i 136
Sha, i 84
sharica, *Procavia*, v 65
sharpei, *Raphicerus*, ii 153
 " *sharpei*, ii 154
Sheep, *Barbary*, i 123
 " *Bighorn*, i 110
 " *Red*, i 78
sheila, *Mazama*, iv 205
Shen-si *Takin*, i 217
Shika, iv 108
shirensis, *Cephalophus grimmii*, ii 120
shoana, *Procavia*, v 62
 " *Redunca fulvorufula*, ii 224
Short-faced Carpathian Red Stag, iv 125
Shou, iv 141, 143
siamensis, *Cervus eldi*, iv 104
Siberian Roe, iv 226
sibirica, *Capra*, i 142
 " *sibirica*, i 143, 146
 " *Cervus maral*, iv 134
sibiricum, *Capra alpium*, i 142
sibiricus, *Cervus*, iv 135
 " *asiaticus*, iv 137
 " *Ibex*, i 143
 " *Moschus*, iv 5
 " *Rangifer tarandus*, iv 244
sibyllæ, *Gazella soemmerringi*, iii 100
Sica, iv 106
sica, *Cervus*, iv 107
sicarius, *Sikaillu*, iv 107
sierræ, *Ovis canadensis*, i 115
sifanicus, *Moschus moschiferus*, iv 7
Sig, ii 12
Sigmoceros, ii 3
 " *lichtensteini*, ii 29
signatus, *Tragelaphus scriptus*, iii 165
Sika, iv 108
 " *Formosan*, iv 111
Sika, iv 105
 " *andreas*, iv 107
 " *aplodonticus*, iv 107
 " *arietinus*, iv 107
 " *blakistonius*, iv 107
 " *brachyrhinus*, iv 107
 " *cycloceros*, iv 107
 " *dolichorhinus*, iv 107
 " *dugenneanus*, iv 107
 " *elegans*, iv 107
 " *ellipticus*, iv 107
 " *frinianus*, iv 107
 " *grilloanus*, iv 107

- Sika joretianus, iv 107
 „ lacrymans, iv 107
 „ minoënsis, iv 107
 „ mitratus, iv 107
 „ orthopodicus, iv 107
 „ oxycephalus, iv 107
 „ porcorelianus, iv 107
 „ rutilus, iv 107
 „ schizodonticus, iv 107
 „ scudaënsis, iv 107
 „ surdescens, iv 107
 „ yesoënsis, iv 107
 „ yuanus, iv 107
 sika, Cervus, iv 107
 Sikaillus, iv 106
 „ aceros, iv 107
 „ brachypus, iv 107
 „ consobrinus, iv 107
 „ daimius, iv 107
 „ dejardinus, iv 107
 „ infelix, iv 107
 „ latidens, iv 107
 „ marmandianus, iv 107
 „ paschalis, iv 107
 „ regulus, iv 107
 „ rex, iv 107
 „ sicarius, iv 107
 „ sika, iv 107
 Sikaillus, iv 106
 Sikelaphus pseudaxis, iv 116
 „ soloënsis, iv 91
 silvicultrix, Antilope, ii 63
 similis, Cervus, iv 185
 simoninus, Sambar, iv 92
 simplex, Tragelaphus dianæ, iii 168
 simplicicornis, Cervus (Subulo), iv 209
 „ Mazama, iv 208, 209
 „ „ simplicicornis, iv 210
 simplicornis, Coassus, iv 209
 simpsoni, Bos caffer, i 70
 „ Cephalophus (Guevei), ii 105
 sinum, Ceratotherium, v 56
 simus, Rhinoceros (Diceros), v 55, 56
 „ „ simus, v 56
 sinaitica, Capra nubiana, i 154
 sinaiticus, Hyrax, v 63
 sinalœ, Odocoileus virginianus, iv 166
 sinensis, Budorcas taxicolor, i 214
 „ Muntiacus, iv 31
 Sing-sing, ii 233, 242
 sing-sing, Cervus, ii 241
 „ Kobus, ii 232, 234, 241
 Sitatunga, iii 189
 sitkensis, Odocoileus columbianus, iv 184
 Situtunga, iii 189
 skyn, Ægoceros, i 149
 slatini, Procavia, v 74
 smithemanni, Cobus, ii 249
 smithemani, Kobus (Onotragus), ii 249
 smithi, Cervus, iv 100
 „ Gazella granti, iii 93
 „ Madoqua guentheri, ii 194
 Soemmerring's Gazelle, iii 97
 soemmerringi, Gazella (Nanger), iii 96, 97, v 111
 „ Gazella soemmerringi, iii 98, v 111
 soemmerringii, Antilope, iii 86
 soloënsis, Sikelaphus, iv 91
 somalica, Procavia brucei, v 70
 somalicus, Equus asinus, v 38
 „ Oreotragus oreotragus, ii 128
 somaliensis, Equus asinus, v 38
 „ Rhinoceros bicornis, v 55
 sondaicus, Bos, i 21
 „ Buffelus, i 41
 „ Rhinoceros, v 3, 48, 50
 songarica, Cervus maral, iv 136
 songaricus, Cervus canadensis, iv 136
 sonoriense, Tagassu angulatum, iv 384
 sonoriensis, Dicotyles angulatus, iv 384
 spadix, Cephalophus, ii 67
 spatharius, Ussa, iv 91
 speekei, Tragelaphus, iii 186
 spegazzinii, Tapirus terrestris, v 43
 spekei, Gazella, iii 78, 80
 „ Tragelaphus (Limnotragus) iii 185, 186
 „ „ spekei, iii 186
 spekii, Eurycerus (Hydrotragus), iii 185
 spelæus, Odocoileus, iv 155
 spiniger, Antilope (Spinigera), ii 169
 Spinigera, ii 158
 spinigera, Antilope, ii 169
 spinosa, Mazama, iv 174

- spinosus, *Odocoileus virginianus*,
 iv 174
 spiradens, *Dicotyles pecari*, iv 378
 spirocerus, *Bubalus buffelus*, i 43
 spitzbergensis, *Rangifer tarandus*,
 iv 243
 splendidula, *Grimmia*, ii 114
 splendidulus, *Cephalophus*
 grimmi, ii 114
 Spotted Deer, iv 50
 Springbok, iii 111
 Springbuck, iii 111
 Square-mouthed Rhinoceros, v 56
 Stag, Polish, iv 126
 ,, Short-faced Carpathian Red,
 iv 125
 stampflii, *Hyrax*, v 77
 stanleyanus, *Tragulus*, iv 265
 ,, ,, stanleyanus,
 iv 265
 steerii, *Cervus*, iv 86
 Steinbok, ii 148
 stenbuck, *Cerophorus* (*Cervi-*
 capra), ii 147
 stenocephalus, *Rhinoceros*, v 48
 stigmaticus, *Raphicercus campes-*
 tris, ii 152
 Strepsiceros, iii 191
 ,, abyssinicus, iii 202
 ,, angasi, iii 180
 ,, buxtoni, iii 182
 ,, capensis, iii 197
 ,, ,, chora, iii 202
 ,, ,, typicus, iii 200
 ,, cervicapra, iii 24
 ,, excelsus, iii 198
 ,, imberbis, iii 192
 ,, ,, australis, iii 195
 ,, ,, imberbis, iii 194
 ,, koodoo, iii 197
 ,, kudu, iii 197
 ,, strepsiceros, iii 196,
 197
 ,, ,, bea, iii 201
 ,, ,, chora, iii 202
 ,, ,, strepsiceros, iii
 200
 ,, ,, zambesensis,
 iii 198
 ,, suara, iii 10
 ,, tendal, iii 192
 strepsiceros, *Cemas*, iii 24
 ,, Strepsiceros, iii 196,
 197
 ,, ,, strepsiceros,
 iii 200
 Strongyloceros, iv 116
 ,, canadensis, iv 129
 ,, occidentalis, iv
 132
 strongyloceros, *Cervus*, iv 129
 stonei, *Ovis canadensis*, i 120
 ,, *Rangifer tarandus*, iv 251
 storcki, *Ovis ammon*, i 100
 stuhlmanni, *Procavia* (*Dendro-*
 hyrax), v 77
 Stylocerus, iv 10
 ,, aureus, iv 24
 ,, muntjac, iv 21
 ,, muntjacus, iv 21
 ,, muntjak, iv 12
 ,, ratwa, iv 21
 ,, subcornutus, iv 12
 stylocerus, *Cervus*, iv 21
 suara, *Æpyceros melampus*, iii 10
 subcornutus, *Cervulus*, iv 12
 subgutturosa, *Gazella*, iii 42, 43
 ,, ,, subgutturosa,
 iii 44
 subhemachelus, *Bos*, i 14
 subquadricornis, *Tetracerus*, iii
 222
 subquadricornutus, *Tetracerus*, iii
 222
 sub-4-cornutus, *Antilope*, iii 222
 subrufus, *Tragulus kanchil*, iv 283,
 294
 Subula, iv 198
 subulata, *Antilope* (*Raphicercus*),
 ii 147
 Subulo, iv 198
 ,, apura, iv 199
 ,, auritus, iv 214
 ,, dolichurus, iv 199
 ,, rufinus, iv 208
 ,, rufus, iv 199, 200
 ,, sartorii, iv 205
 ,, superciliaris, iv 203
 suillus, *Tapirus*, v 41
 sumatraensis, *Antilope*, i 188
 Sumatran Rusa, iv 67
 sumatranus, *Elephas maximus*, v
 83
 ,, *Rhinoceros*, v 50
 ,, *Tapirus*, v 40
 sumatrensis, *Capricornis*, i 188
 ,, ,, sumatrensis,
 i 189
 ,, *Rhinoceros* (*Dicer-*
 orhinus), v 49
 sundevalli, *Cephalophus melano-*
 rheus, ii 97

- sundevalli, *Gazella dorcas*, iii 72
 „ *Phacochoerus æthiopi-*
 cus, iv 368
 Suni, ii 160
 superciliaris, *Mazama*, iv 203
 surdescens, *Sika*, iv 107
 Sus, iv 307, 329
 „ (subgenus), iv 308
 „ *æthiopicus*, iv 366
 „ *affinis*, iv 318
 „ *africanus*, iv 350, 373
 „ *ahænobarbus*, iv 342
 „ *albirostris*, iv 375
 „ *amboinensis*, iv 335
 „ *andamanensis*, iv 326
 „ *andersoni*, iv 328
 „ *aper*, *var.* *alpomus*, iv 318
 „ „ *isonotus*, iv 318
 „ *aramensis*, iv 330
 „ *arietinus*, iv 333
 „ *aruensis*, iv 330
 „ *attila*, iv 316
 „ *babi*, iv 328
 „ *babirousa*, iv 346
 „ *babirusa*, iv 346
 „ *babirussa*, iv 346
 „ *babyrussa*, iv 345, 346
 „ *barbatus*, iv 338, 341
 „ „ *ahænobarbus*, iv 342
 „ „ *balabacensis*, iv 342
 „ „ *barbatus*, iv 340
 „ „ *calamianensis*, iv 343
 „ „ *var.* *calamianensis*,
 iv 343
 „ „ *gargantua*, iv 341
 „ „ *oi*, iv 341
 „ „ *palavensis*, iv 342
 „ *bengalensis*, iv 318
 „ *borneensis*, iv 336
 „ *calamianensis*, iv 343
 „ *capensis*, iv 351
 „ *cebifrons*, iv 336
 „ *celebensis*, iv 331
 „ „ *amboinensis*, iv 335
 „ „ *borneensis*, iv 336
 „ „ *borneensis*, iv 336
 „ „ *celebensis*, iv 332
 „ „ *ceramicus*, iv 335
 „ „ *mindanensis*, iv 334
 „ „ *minutus*, iv 334
 „ „ *nehringi*, iv 333
 „ „ *philippensis*, iv 333
 „ „ *philippinensis*, iv 333
 „ *ceramicus*, iv 335
 „ *chæropotamus*, iv 351
 „ „ *hassama*, iv 357
 Sus *chæropotamus nyasæ*, iv 354
 „ „ *porcus*, iv 357
 „ „ *typicus*, iv 352
 „ *cristatus*, iv 318
 „ „ *andamanensis*, iv 326
 „ „ *cristatus*, iv 319
 „ „ *jubatulus*, iv 320
 „ „ *jubatus*, iv 320
 „ „ *moupinensis*, iv 317
 „ „ *typicus*, iv 319
 „ *europæus*, iv 310
 „ *fasciatus*, iv 310
 „ *floresianus*, iv 325
 „ *frenatus*, iv 333
 „ *gargantua*, iv 341
 „ *inconstans*, iv 334
 „ *indicus*, iv 318
 „ *jubatulus*, iv 320
 „ *jubatus*, iv 320
 „ *koiropotamus*, iv 351
 „ *labiatus*, iv 376
 „ *larvatus*, iv 349, 351
 „ *leucomystax*, iv 321
 „ „ *leucomystax*, iv 322
 „ „ *taivanus*, iv 322
 „ *longirostris*, iv 339
 „ *lybicus*, iv 316
 „ *marchei*, iv 333
 „ *meridionalis*, iv 313
 „ *microtis*, iv 333
 „ *milleri*, iv 325
 „ *minus*, iv 329
 „ *mindanensis*, iv 334
 „ *minutus*, iv 334
 „ *moupinensis*, iv 317
 „ *mystaceus*, iv 337
 „ *natunensis*, iv 329
 „ *nehringii*, iv 333
 „ *niadensis*, iv 328
 „ *nicobaricus*, iv 327
 „ *niger*, iv 330
 „ *oi*, iv 341
 „ *papuensis*, iv 330
 „ *penicillatus*, iv 357
 „ *peninsularis*, iv 327
 „ *philippensis*, iv 333
 „ (*Porcula*) *salvianus*, iv 343
 „ *porcus*, iv 357
 „ *rhionis*, iv 327
 „ *salvianus*, iv 343
 „ *salvianus*, iv 343
 „ *scrofa*, iv 308
 „ „ *attila*, iv 316
 „ „ *barbarus*, iv 315
 „ „ *bæticus*, iv 314
 „ „ *castilianus*, iv 314

- Sus scrofa*, *var. celtica*, iv 310
 *fasciatus*, iv 310
 *ferus*, iv 313
 *lybicus*, iv 316
 *meridionalis*, iv 313
 *moupinensis*, iv 317
 *nigripes*, iv 317
 *var. sardous*, iv 313
 *scrofa*, iv 313
 *sennaarensis*, iv 315
 .. *scropha*, iv 310
 .. *sennaarensis*, iv 315
 .. *setosus*, iv 310
 .. *taivanus*, iv 322
 .. *tajacu*, iv 379
 .. *tajassu*, iv 379
 .. *ternatensis*, iv 330
 .. *timorensis*, iv 329
 .. *timoriensis*, iv 329
 .. *verrucosus*, iv 335, 336
 *amboinensis*, iv 335
 *borneensis*, iv 336
 *celebensis*, iv 331
 *ceramicus*, iv 335
 *mindanensis*, iv 334
 *philippensis*, iv 333
 *philippinensis*, iv 333
 .. *vittatus*, iv 323, 336
 *andamanensis*, iv 326
 *andersoni*, iv 328
 *babi*, iv 328
 *cristatus*, iv 318
 *floresianus*, iv 325
 *japonica*, iv 321
 *leucomystax*, iv 321
 *milleri*, iv 325
 *minus*, iv 329
 *moupinensis*, iv 317
 *natunensis*, iv 329
 *niadensis*, iv 328
 *nicobaricus*, iv 327
 *peninsularis*, iv 327
 *rhionis*, iv 327
 *sennaariensis*, iv 315
 *taivanus*, iv 322
 *timoriensis*, iv 329
 *vittatus*, iv 325
 .. *weberi*, iv 333
 .. *zeylonensis*, iv 318
suturosa, Antilope, iii 147
Swamp-Deer, iv 94
swaynei, *Bubalis tora*, ii 12
 .. *Madoqua*, ii 176
swettenhami, *Capricornis sumatrensis*, i 189
Swine, Wild, iv 310
swinhoei, *Capricornis (Capricornulus)*, i 201
 .. *Cervus unicolor*, iv 81
swinhoii, *Capricornis*, i 201
 .. *Rusa*, iv 81
syka, *Cervus*, iv 107
sylhetanus, *Bos*, i 15
sylvanus, *Gauribus*, i 30
sylvatica, *Antilope*, iii 177
sylvaticus, *Tragelaphus*, iii 176
 *scriptus*, iii 177, 178
sylvestris, *Cariacus*, iv 189
 .. *Hyrax*, v 77
 .. *Rangifer tarandus*, iv 248
Sylvicapra, ii 107
 .. (subgenus), ii 107
 .. *abyssinica*, ii 117
 *nyansæ*, ii 118
 .. *caffra*, ii 108
 .. *campbelliæ*, ii 116
 .. *coronata*, ii 115
 *campbelliæ*, ii 116
 .. *frederici*, ii 94
 .. *grimmii altivallis*, ii 120
 *roosevelti*, ii 121
 .. *grimmia*, ii 86, 108, 115
 *deserti*, v 108
 *pallidior*, v 107
 .. *leucoprosopus*, ii 121
 .. *madoqua*, ii 117
 .. *mergens*, ii 108
 .. *natalensis*, ii 68
 .. *ocularis*, ii 113
 .. *ogilbyi*, ii 83
 .. *philantomba*, ii 94
 .. *pygmæa*, ii 101
 .. *sylvicultrix*, ii 64
sylvicultor, *Cephalophus*, ii 64
sylvicultrix, *Cephalophus*, ii 63
Synceros, i 40
Syncerus, i 40
 .. *azrakensis*, i 57
 .. *brachyceros*, i 62
 .. *caffer*, i 51
 *æquinoctialis*, i 58
 .. *caffer*, i 52
 .. *cottoni*, i 60
 .. *mathewsi*, i 59
 .. *radcliffei*, i 55
 .. *centralis*, i 66
 .. *gariensis*, i 55
 .. *limpopoënsis*, i 56

- Syncerus mayi*, i 62
 „ *nanus*, i 69
 „ *neumanni*, i 53
 „ *planiceros*, i 66
 „ *ruhaensis*, i 53
 „ *schillingsi*, i 54
 „ *thierryi*, i 61
 „ *wembarensis*, i 54
 „ *wiesei*, i 57
syriaca, *Procavia*, v 63
 „ „ *syriaca*, v 64
syriacus, *Hyrax*, v 63
Sze-chuan Goral, i 207
 „ *Takin*, i 214

tæniopus, *Equus asinus*, v 38
taëvanus, *Cervus*, iv 110
Tagassu, iv 374
 „ *angulatum*, iv 383
 „ „ *crassum*, iv 385
 „ „ *humerale*, iv 384
 „ „ *sonoriense*, iv 384
 „ „ *yucatanense*, iv 385
 „ *crusnigrum*, iv 385
 „ *nanus*, iv 386
 „ *pecari*, iv 376
 „ „ *ringens*, iv 378
 „ *torvus*, iv 382
Tahr, i 174
 „ *Arabian*, i 176
 „ *Nilgiri*, i 177
taioranus, *Cervus*, iv 111
taiouanus, *Cervus (Sika)*, iv 110
taivana, *Porcula*, iv 322
taivanus, *Pseudaxis*, iv 111
 „ *Sus leucomystax*, iv 322
tajacu, *Dicotyles (Pecari)*, iv 379
 „ „ *tajacu*, iv 380
tajassu, *Sus*, iv 379
Takin, i 211
 „ *Shen-si*, i 217
 „ *Sze-chuan*, i 214
tamulicus, *Cervulus*, iv 24
 „ „ *muntjac*, iv 21
Tana Giraffe, iii 250
tanæ, *Bubalis cokei*, v 101
 „ *Bubalus caffer*, v 93
tao, *Antilope*, iii 126
Tapir, *Baird's*, v 45
 „ *Brazilian*, v 42
 „ *Dow's*, v 46
 „ *Malay*, v 40
 „ *Roulin's*, v 44
Tapir, v 39, 42
 „ *americanus*, v 41

Tapir anta, v 41
 „ *malayanus*, v 40
 „ *pinchaque*, v 44
tapir, *Hydrochærus*, v 41
Tapirella, v 44
 „ *bairdi*, v 45
 „ *dowi*, v 46
Tapirus, v 39, 41
 „ (*Acrocodia*) *indicus*, v 39
 „ *americanus*, v 41, 45
 „ „ *laurillardi*, v 43
 „ „ *var. mexianæ*, v 43
 „ *bairdi*, v 45
 „ *bicolor*, v 40
 „ *dowi*, v 46
 „ *ecuadorensis*, v 41
 „ (*Elasmognathus*) *bairdi*, v 45
 „ *enigmaticus*, v 44
 „ *indicus*, v 39
 „ *laurillardi*, v 43
 „ *leucogenys*, v 44
 „ *malayanus*, v 40
 „ *pinchacus*, v 44
 „ *pinchaque*, v 44
 „ *roulini*, v 44
 „ *spgazzinii*, v 43
 „ *suillus*, v 41
 „ *sumatranus*, v 40
 „ (*Tapirella*) *bairdi*, v 45
 „ „ *dowi*, v 46
 „ *tapirus*, v 41
 „ *terrestris*, v 41
 „ „ *laurillardi*, v 43
 „ „ *mexianæ*, v 43
 „ „ *spgazzinii*, v 43
 „ „ *terrestris*, v 42
 „ *villosus*, v 44
tapirus, *Tapirus*, v 41
Tapyra, v 39
Tarandus, iv 238
 „ *arcticus*, iv 254
 „ *borealis*, iv 239
 „ *furcifer*, iv 240
 „ *hastalis*, iv 246
 „ *lapponum*, iv 239
 „ *rangifer*, iv 239
tarandus, *Rangifer*, iv 239
 „ „ *tarandus*, iv 241
tartarica, *Saiga*, iii 13
tatarica, *Saiga*, iii 13, 14
taurina, *Antilope*, ii 54
taurinus, *Connochætes*, ii 54, v 105
 „ „ *taurinus*, ii 56
taurius, *Connochætes*, ii 55
Taurotragus, iii 207

- Taurotragus* (*Boselaphus*) *gigas*,
 iii 218
 " " *oreas*, iii 217
 " *derbianus*, iii 216, 219
 " " *congolanus*, iii
 219
 " " *derbianus*, iii
 217
 " " *gigas*, iii 217,
 218
 " " *typicus*, iii 217
 " *gigas*, iii 218
 " " *livingstonei*, iii
 212
 " *oryx*, iii 208, 210
 " " *gigas*, iii 218
 " " *kaufmanni*, iii
 214
 " " *livingstonei*, iii
 212
 " " *livingstonianus*,
 iii 212
 " " *niediecki*, iii 213
 " " *oryx*, iii 211
 " " *pattersonianus*,
 iii 214
 " " *selousi*, iii 213
 " " *typicus*, iii 211
Taurus, i 11
taurus, *Bos*, i 12
tavistocki, *Cervus* (*Rusa*), iv 70
taxicola, *Budorcas*, i 211
taxicolor, *Budorcas*, i 211
 " " *taxicolor*, i 211
Tayassu, iv 374
 " *albirostris*, iv 376
 " " *ringens*, iv 378
 " " *spiradens*, iv 378
 " *angulatus*, iv 383
 " " *crassus*, iv 385
 " " *humeralis*, iv 384
 " " *sonoriensis*, iv
 384
 " " *yucatanensis*, iv
 385
 " *crusnigrum*, iv 385
 " *nanus*, iv 386
 " *niger*, iv 382
 " *pecari*, iv 375
 " " *pecari*, iv 376
 " " *ringens*, iv 378
 " *tayassu*, iv 380
 " *torvum*, iv 382
 " *torvus*, iv 382
tayassu, *Tayassu*, iv 380
Tayassus, iv 374
Tayassus albirostris, iv 376
 " " *albirostris*, iv 376
teesdalei, *Muntiacus lacrymans*,
 iv 27
telesforianus, *Ussa*, iv 91
tema, *Mazama*, iv 205
 " " *tema*, iv 206
tendal, *Antilope*, iii 202
 " *Strepsiceros*, iii 192
ternatensis, *Sus*, iv 330
Terpone, ii 63
 " *longiceps*, ii 64, 66
terrænovæ, *Rangifer tarandus*, iv
 248
terrestris, *Tapirus*, v 41
 " " *terrestris*, v 42
terricola, *Procavia* (*Dendrohyrax*),
 v 78
terutus, *Tragululus javanicus*, iv
 272
tessmanni, *Procavia* (*Dendro-*
hyrax), v 79
Tetraceros, iii 220
 " *iodes*, ii 222
 " *paccerois*, iii 222
 " *quadricornus typicus*,
 iii 222
 " *striaticornis*, iii 221
 " *subquadricornis*, iii 222
 " *subquadricornutus*, iii
 222
Tetracerus, iii 220
 " *chickara*, iii 221
 " *quadricornis*, iii 221
tetracornis, *Antilope*, iii 221
Tetraproctodon, iv 387
 " *liberiensis*, iv 393
Tetraprotodon, iv 387
texana, *Mazama americana*, iv 163
texanus, *Odocoileus virginianus*,
 iv 163
texensis, *Odocoileus*, iv 163
 " *Odontocœlus america-*
 nus, iv 163
Thameng (*Burmese*), iv 100
Thamin, iv 100
thar, *Capricornis sumatrensis*
 thar, i 193
thierryi, *Bos caffer*, i 61
thikæ, *Kobus ellipsiprymnus*, ii
 228
thomasi, *Cephalophus*, ii 64
 " *Kobus kob*, ii 264
 " *Odocoileus virginianus*,
 iv 168
 " *Procavia brucei*, v 72

- thomasinæ, Cervicapra, ii 205
 thomsoni, Gazella, iii 83
 thornicrofti, Giraffa camelopardalis, iii, 252
 thoroldi, Cervus, iv 149
 thotti, Capreolus capreolus, iv 223
 Tiang, ii 40, 43
 tiang, Damalis, ii 42
 „ Damaliscus korrigum, ii 42, 43
 tiang-riel, Damalis, ii 42
 tianschanicus, Capreolus pygargus, iv 228
 tibetana, Budorcas, i 214
 tibetanus, Budorcas taxicolor, i 214
 „ Cervus, iv 141
 tigrinum, Helladotherium, iii 259
 tigrinus, Equus, v 27
 tilonura, Gazella, iii 81
 timorensis, Sus, iv 329
 timoriensis, Cervus (Rusa), iv 63
 „ Cervus timoriensis, iv 65
 „ Sus vittatus, iv 329
 tippelskirchi, Giraffa, iii 251
 „ „ camelopardalis, iii 250, 251
 tjæderi, Cobus defassa, ii 235
 „ Tragelaphus, iii 171
 Tohi, ii 217
 tohi, Rodunca redunca, ii 217
 tolteca, Mazama americana, iv 167
 toltecus, Odocoileus virginianus, iv 167
 topi, Damaliscus korrigum, v 104
 Tora, ii 9
 tora, Bubalis, ii 8, 9
 „ „ tora, ii 10
 torquatus, Dicotyles, iv 379, 382
 torvum, Tayassu, iv 382
 torvus, Dicotyles tajacu, iv 382
 toxotis, Elephas africanus, v 86
 Tragelaphus, iii 151, 152, 161
 „ albo-virgatus, iii 203
 „ albovittatus, iii 203
 „ angasi, iii 179
 „ bor, iii 164
 „ buxtoni, iii 182
 „ cottoni, iii 167
 „ „ dodingæ, iii 167
 „ „ meridionalis, iii 167
 „ dama, iii 170
 Tragelaphus decula, iii 159
 „ „ fulvo-ochraceus, iii 159
 „ delamerei, iii 171
 „ dianæ, iii 168
 „ „ sasse, iii 168
 „ „ simplex, iii 168
 „ eldomæ, iii 172
 „ eurycerus, iii 203
 „ fasciatus, iii 163
 „ gratus, iii 157, 188
 „ „ albonotatus, iii 189
 „ haywoodi, iii 170
 „ „ brunneus, iii 170
 „ hemprichii, ii 175
 „ hippelaphus, iii 226
 „ knutsoni, iii 158
 „ (Limnotragus) spekei, iii 185, 186
 „ (Limnotragus) spekei ugallæ, iii 186
 „ locorinæ, iii 168
 „ „ laticeps, iii 168
 „ madoqua, ii 117
 „ massaicus, iii 173
 „ melanotis, ii 156
 „ meneliki, iii 160
 „ mergens, ii 108
 „ montanus, ii 138
 „ multicolor, iii 162
 „ nigrinotatus, iii 163
 „ obscurus, iii 157
 „ oreotragus, ii 124
 „ ornatus, iii 175
 „ phalerata, iii 157
 „ powelli, iii 161
 „ pygmæus, ii 101
 „ roualeyni, iii 176
 „ „ fasciatus, iii 163
 „ „ typicus, iii 176
 „ scriptus, iii 152, 153
 „ „ bor, iii 164
 „ „ cottoni, iii 167
 „ „ dama, iii 170
 „ „ decula, iii 159
 „ „ delamerei, iii 171
 „ „ dianæ, iii 168
 „ „ eldomæ, iii 172
 „ „ fasciatus, iii 163

- Tragelaphus scriptus haywoodi*, iii 170
 „ „ *knutsoni*, iii 158
 „ „ *locorinæ*, iii 168
 „ „ *makalæ*, iii 157
 „ „ *massaicus*, iii 173
 „ „ *meneliki*, iii 160
 „ „ *meruensis*, iii 175
 „ „ *multicolor*, iii 162
 „ „ *nigrinotatus*, iii 163
 „ „ *obscurus*, iii 157
 „ „ *olivaceus*, iii 173
 „ „ *ornatus*, iii 175
 „ „ *phaleratus*, iii 157
 „ „ *pictus*, iii 164
 „ „ *powelli*, iii 161
 „ „ *punctatus*, iii 165
 „ „ *roualeyni*, iii 176
 „ „ *scriptus*, iii 155
 „ „ *signatus*, iii 165
 „ „ *sylvaticus*, iii 177, 178
 „ „ *tjæderi*, iii 171
 „ „ *typicus*, iii 155
 „ „ *vellensis*, iii 166
 „ „ *selousi*, iii 189
 „ „ *spekei*, iii 185, 186, 189
 „ „ *spekei albonotatus*, iii 189
 „ „ *gratus*, iii 188
 „ „ *selousi*, iii 189
 „ „ *spekei*, iii 186
 „ „ *typicus*, iii 186
 „ „ *strepsiceros*, iii 198
 „ „ *sylvaticus*, iii 176, 177
 „ „ „ *meruensis*, iii 175
 „ „ „ *roualeyni*, iii 176
Tragelaphus tjæderi, iii 171
 „ „ *tragulus*, iii 147
tragelaphus, *Ovis*, i 123
 „ „ *Portax*, iii 226
tragocamelus, *Boselaphus*, iii 225, 226
Tragops, iii 40
 „ „ *bennettii*, iii 51
Tragopsis, iii 40
 „ „ *bennettii*, iii 51
 „ „ *hazenna*, iii 51
Tragulus, ii, 158, iv 261
 „ „ *affinis*, iv 286
 „ „ *amœnus*, iv 278
 „ „ *annæ*, iv 279
 „ „ *bancanus*, iv 275
 „ „ *batuanus*, iv 279
 „ „ *billitonus*, iv 277
 „ „ *borneanus*, iv 270
 „ „ *brevipes*, iv 284
 „ „ *bunguranensis*, iv 279
 „ „ *canescens*, iv 270
 „ „ „ *terutus*, iv 272
 „ „ *carimatæ*, iv 284
 „ „ *flavicollis*, iv 275
 „ „ *focalinus*, iv 292
 „ „ *formosus*, iv 267
 „ „ *fulvicollis*, iv 284
 „ „ *fulviventris*, iv 285
 „ „ *fuscatus*, iv 268
 „ „ *hosei*, iv 290
 „ „ *javanicus*, iv 268, 281
 „ „ „ *annæ*, iv 279
 „ „ „ *amœnus*, iv 278
 „ „ „ *bancanus*, iv 275
 „ „ „ *batuanus*, iv 279
 „ „ „ *billitonus*, iv 277
 „ „ „ *borneanus*, iv 270
 „ „ „ *bunguranensis*, ii 279
 „ „ „ *canescens*, iv 270
 „ „ „ *flavicollis*, iv 275
 „ „ „ *formosus*, iv 267
 „ „ „ *javanicus*, iv 268
 „ „ „ *jugularis*, iv 278
 „ „ „ *lutescens*, iv 275, 294
 „ „ „ *napu*, iv 269
 „ „ „ *nigricans*, iv 272
 „ „ „ *nigrocinctus*, iv 276, 294
 „ „ „ *nigricollis*, iv 276, 294
 „ „ „ *parallelus*, iv 274
 „ „ „ *pretiellus*, iv 274, 294

- Tragulus javanicus pretiosus*, iv 273, 294
 „ „ *rufulus*, iv 267
 „ „ *sebucus*, iv 277
 „ „ *terutus*, iv 272
 „ „ *umbrinus*, iv 273
 „ „ *versicolor*, iv 280
 „ *jugularis*, iv 278
 „ *kanchil*, iv 280, 281, 282
 „ „ *affinis*, iv 286
 „ „ *brevipes*, iv 284
 „ „ *carinatae*, iv 284
 „ „ *everetti*, iv 291
 „ „ *focalinus*, iv 292
 „ „ *fulvicollis*, iv 284
 „ „ *fulviventer*, iv 285
 „ „ *hosei*, iv 290
 „ „ *kanchil*, iv 282
 „ „ *lampensis*, iv 288
 „ „ *lancavensis*, iv 288
 „ „ *longipes*, iv 282
 „ „ *luteicollis*, iv 282
 „ „ *natunæ*, iv 291
 „ „ *pallidus*, iv 285
 „ „ *pelandoc*, iv 292
 „ „ *pierrei*, iv 291
 „ „ *ravulus*, iv 288
 „ „ *rubeus*, iv 283, 294
 „ „ *russeus*, iv 289
 „ „ *russulus*, iv 289
 „ „ *subrufus*, iv 283, 294
 „ „ *virgicollis*, iv 290
 „ *lampensis*, iv 288
 „ *lancavensis*, iv 288
 „ *luteicollis*, iv 282
 „ *lutescens*, iv 275
 „ *melanotis*, ii 156
 „ *meminna*, iv 262
 „ *mimenoides*, iv 262
 „ *napu*, iv 268, 269, 277
 „ „ *borneanus*, iv 270
 „ *natunæ*, iv 291
 „ *nigricans*, iv 272
 „ *nigricollis*, iv 276
 „ *nigrocinctus*, iv 276
 „ *pallidus*, iv 285
 „ *pediotragus*, ii 157
 „ *pelandoc*, iv 292
 „ *perflavus*, iv 266
 „ *pretiellus*, iv 274
 „ „ *parallelus*, iv 274
 „ „ *pretiellus*, iv 274
 „ *pretiosus*, iv 273
- Tragulus pygmæus*, ii 101, 169, iv 281
 „ *ravulus*, iv 288
 „ *ravus*, iv 286
 „ *rubeus*, iv 283
 „ *rufulus*, iv 267
 „ *rupestris*, ii 147
 „ *russeus*, iv 289
 „ *russulus*, iv 289
 „ *sebucus*, iv 277
 „ *stanleyanus*, iv 265
 „ „ *formosus*, iv 267, 294
 „ „ *perflavus*, iv 266, 294
 „ „ *rufulus*, iv 267
 „ „ *stanleyanus*, iv 265
 „ *subrufus*, iv 283
 „ *umbrinus*, iv 273
 „ *versicolor*, iv 280
 „ *virgicollis*, iv 290
tragulus, *Antilope*, ii 146
Tragus, i 129
tragus, *Rupicapra*, i 180
transalaiana, *Capra sibirica*, i 148
transsylvanicus, *Capreolus capreolus*, iv 222
transvaalensis, *Equus quagga*, v 25
transvosagicus, *Cervus* (*Capreolus*) *capreolus*, iv 221
triangularis, *Antilope*, iii 210
trouessarti, *Equus quagga*, v 21
truei, *Odocoileus virginianus*, iv 169
truii, *Odontocælus*, iv 169
truteri, *Antilope*, iii 134
tschadensis, *Bubalis lelwel*, ii 20
 „ *Hippopotamus amphibius*, iv 390
 „ *Kobus unctuosus*, ii 235
tschudii, *Mazama*, iv 212
Tsesebe, ii 38
tuasoninus, *Ussa*, iv 91
tunisianus, *Alcelaphus bubalis*, ii 5
tunjuc, *Cervus*, iv 67
 „ *Cervus timoriensis*, iv 66
Tur, *Eastern*, i 132
 „ *Western*, i 134
typica, *Bubalis tora*, ii 10
 „ *Capra falconeri*, i 163
 „ „ *nubiana*, i 154
 „ „ *pyrenaica*, i 139
 „ „ *sibirica*, i 143, 146

- typica, *Giraffa camelopardalis*, iii 242
 „ *Madoqua kirki*, ii 188
 „ *Mazama hemionus*, iv 178
 „ *Ovis ammon*, i 95
 „ „ *canadensis*, i 111
 „ „ *orientalis*, i 80, 82
 „ „ *poli*, i 107
 „ „ *vignei*, i 85
 „ *Procavia abyssinica*, v 66
 „ „ *brucei*, v 69
 „ „ *syriaca*, v 64
typicum, *Dorcatherium aquaticum*, iv 296
typicus, *Æpyceros melampus*, iii 8
 „ *Alces machlis*, iv 232
 „ *Bos caffer*, i 52
 „ *Cephalophus melano-*
 rheus, ii 97
 „ *Cervulus muntjac*, iv 14
 „ *Cervus elaphus*, iv 122
 „ „ *eldi*, iv 102
 „ „ *hippelaphus*, iv 67
 „ „ *hortulorum*, iv 114
 „ „ *manchuricus*, iv 134
 „ „ *sica*, iv 108
 „ „ *typicus*, iv 131
 „ „ *unicolor*, iv 74
 „ *Connochætes taurinus*, ii 56
 „ *Elephas africanus*, v 86
 „ *Equus burchelli*, v 22
 „ „ *caballus*, v 6
 „ „ *hemionus*, v 11
 „ „ *onager*, v 14
 „ *Nesotragus livingstoni-*
 anus, ii 163
 „ *Phacochærus*, iv 366
 „ *Rangifer tarandus*, iv 241
 „ *Rhaphiceros campestris*,
 ii 149
 „ *Rhinoceros sumatrensis*,
 v 50
 „ *Strepsiceros capensis*, iii 200
 „ *Sus chæropotamus*, iv 352
 „ „ *cristatus*, iv 319
 „ *Taurotragus derbianus*, iii 217
 „ „ *oryx*, iii 211
 „ *Tetraceros quadricornis*,
 iii 222
 „ *Tragelaphus roualeyni*, iii 176
 „ „ *spekei*, iii 186
typicum, *Dorcatherium aquati-*
 cum, iv 296
typus, *Hippopotamus*, iv 387
Tzeiran Gazelle, iii 132
tzeiran, *Antilope*, iii 35
ubangensis, *Potamochoerus por-*
 cus, iv 360
ubangiensis, *Kobus kob*, ii 259
uellensis, *Tragelaphus scriptus*,
 iii 166
ugallæ, *Tragelaphus (Limnotra-*
gus) spekei, iii 186
ugandæ, *Damaliscus korrigum*, v 104
 „ *Kobus defassa*, ii 240
 „ *Redunca redunca*, ii 220
umbrinus, *Tragulus javanicus*, iv 273
unctuosa, *Antilope*, ii 241
unctuosus, *Kobus defassa*, ii 241,
 242
ungulosus, *Capricornis*, i 202
unicolor, *Cervus (Rusa)*, iv 70
 „ „ *unicolor*, iv 74
unicornis, *Rhinoceros*, v 47
uralensis, *Alces machlis*, iv 232
Urial, i 84
Uribos, i 13
 „ *platyceros*, i 30
Urin, i 84
urmiana, *Ovis orientalis*, i 81
Urotragus, i 202
 „ *bedfordi*, i 204
 „ *caudatus*, i 208
 „ *cinereus*, i 207
 „ *evansi*, i 207
 „ *galeanus*, i 210
 „ *goral*, i 204, 206
 „ *griseus*, i 207
urundicus, *Bubalus*, v 94
Urus, i 11, 34
 „ *americanus*, i 37
 „ *nostras*, i 35
urus, *Bos*, i 12, 35
Ussa ambrosianus, iv 89
 „ *atheneensis*, iv 89
 „ *barandanus*, iv 85
 „ *baryceros*, iv 89
 „ *brachyceros*, iv 89
 „ *chrysotrichos*, iv 89
 „ *cinereus*, iv 89
 „ *corteanus*, iv 89
 „ *crassicornis*, iv 89
 „ *dailliardianus*, iv 89
 „ *elorzanus*, iv 89

- Ussa francianus, iv 85
 „ garcianus, iv 89
 „ gonzalinus, iv 89
 „ gorrichanus, iv 90
 „ guevaranus, iv 90
 „ guidoteanus, iv 90
 „ hipolitianus, iv 90
 „ longicuspis, iv 90
 „ macarianus, iv 90
 „ maraisianus, iv 90
 „ marianus, iv 83
 „ marzaninus, iv 90
 „ michaelinus, iv 90
 „ microdontus, iv 90
 „ nigricans, iv 86
 „ nublanus, iv 90
 „ (Oussa), iv 60
 „ ramosianus, iv 90
 „ rosarianus, iv 90
 „ roxasianus, iv 91
 „ rubiginosus, iv 91
 „ spatharius, iv 91
 „ telesforianus, iv 91
 „ tuasoninus, iv 91
 „ verzosanus, iv 91
 „ vidalinus, iv 91
 „ villemerianus, iv 91
 uwendensis, *Kobus unctuosus*, ii 238

 Vaal Rhebok, ii 200
 vaginalis, *Muntiacus muntjak*, iv 21
 „ „ *Muntjacus*, iv 14
 vali, *Capra*, i 155
 valida, *Procavia (Dendrohyrax)*, v 75
 validus, *Dendrohyrax*, v 75
 valie, *Capra*, i 155
 vardoni, *Kobus (Adenota)*, ii 268
 „ „ *vardoni*, ii 269
 vardonii, *Heleotragus*, ii 268
 varentsowi, *Ovis vignei*, i 90
 varenzovi, *Ovis arcar*, i 91
 variani, *Madoqua damarensis*, ii 185
 varius, *Capreolus vulgaris*, iv 220
 „ *Cervus elaphus*, iv 124
 „ *Dama platyceros*, iv 43
 vassei, *Cephalophus natalensis*, ii 70
 vaughani, *Cobus*, ii 265
 Veado Branco, iv 189
 „ *Galheiro Grande*, iv 187
 „ *Mateiro*, iv 200
 „ *Pardo*, iv 200
 venetianus, *Capricornis*, i 202
 vera, *Gazella*, iii 57
 verrucosus, *Dasychoerus*, iv 335
 „ „ *Sus*, iv 335
 versicolor, *Tragulus javanicus*, iv 280
 verutus, *Sambar*, iv 92
 verzosanus, *Ussa*, iv 91
 victoriae, *Capra pyrenaica*, i 140
 Vicugna, iv 304
 vicugna, *Lama*, iv 304
 vidalinus, *Ussa*, iv 91
 vidianus, *Capricornis*, i 202
 vignei, *Ovis*, i 84
 „ „ *vignei*, i 85
 villemerianus, *Ussa*, iv 91
 villosa, *Antilope*, ii 200
 villosus, *Tapirus*, v 44
 virgicollis, *Tragulus*, iv 290
 Virginian Deer, iv 156
 virginiana, *Mazama*, iv 155
 virginianus, *Odocoileus*, iv 155, 156
 „ „ *virginianus* iv 159
 virgultus, *Odocoileus hemionus*, iv 179
 visurgensis, *Cervus elaphus*, iv 124
 vittatus, *Aulochoerus*, iv 335
 „ „ *Sus*, iv 323, 336
 „ „ *vittatus*, iv 325
 volkmanni, *Procavia*, v 69
 vulgaris, *Asinus*, v 37
 „ *Capreolus*, iv 219
 „ *Cervus*, iv 118
 „ *Dama*, iv 43
 wachei, *Cervus canadensis*, iv 137
 wahlbergi, *Equus quagga*, v 24
 Wali, i 156
 wali, *Capra*, i 155
 walie, *Capra*, i 155
 walkeri, *Cephalophus*, ii 92
 walleri, *Lithocranius*, iii 114
 „ „ *walleri*, iii 115
 wallichi, *Cervus*, iv 141, 146
 „ „ *wallichi*, iv 142
 Wapiti, iv 129, 131
 wapiti, *Cervus*, iv 129
 Ward's Zebra, v 32
 wardi, *Capra sibirica*, i 148
 „ *Cervus canadensis*, iv 138
 „ *Equus*, v 32
 „ *Giraffa camelopardalis*, iii 255
 „ *Ovibos moschatus*, i 227
 „ *Redunca redunca*, ii 215

Wari, iv 376
 warryato, Capra (Ibex), i 177
 Wart-Hog, iv 367
 warthæ, Capreolus, iv 221
 Wasserbok, ii 227
 Water-Chevrotain, iv 296
 Water-Deer, Chinese, iv 258
 waterbergensis, Procavia capensis,
 v 61
 Waterbuck, ii 227
 weberi, Sus, iv 333
 welwitschii, Procavia, v 68
 wembaerensis, Bos caffer, i 54
 " Bubalis cokei, v 101
 " Eudorcas, iii 84
 wembarensis, Bubalus, i 54
 wemberensis, Bos caffer, i 54
 Western Kob, ii 256
 " Tur, i 134
 Wet-thamin, iv 102
 weynsi, Cephalophus, ii 74
 White-bearded Gnu, ii 58, v 106
 " Goat, i 219
 " lipped Peccari, iv 376
 " maned Serow, i 197
 " Oryx, iii 127
 " Rhinaster, v 56
 " Rhinoceros, v 56
 " tailed Deer, iv 156
 whitei, Budorcas taxicolor, i 213,
 214
 whitelyi, Coassus, iv 212
 whitfieldi, Cephalophus, ii 94
 wiegmanni, Gymnotis, iv 173
 wiesei, Bos caffer, i 57
 Wild Boar, iv 310
 " Goat, i 157
 " Llama, iv 303
 " Swine, iv 310
 Wildebeest, ii 52
 " Blue, iii 132
 windhuki, Procavia capensis, v 60
 wintgensii, Bubalus, v 93
 Woodland Caribou, iv 246
 wroughtoni, Madoqua guentheri,
 ii 193
 wuil, Adenota, ii 267
 xanthodeiros, Kemas, i 207
 xanthopygus, Cervus canadensis,
 iv 133

Xenelaphus, iv 193
 " anomalocera, iv 196
 " bisulcus, iv 194
 " chilensis, iv 196
 " huamel, iv 196
 " leucotis, iv 196
 Yak, i 31
 yakutskensis, Alces machlis, iv 234
 Yarkand Gazelle, iii 46
 yarkandensis, Cervus, iv 139
 " Gazella, iii 46
 Yellow-backed Duiker, ii 64
 yesoënsis, Sika, iv 107
 yuanus, Sika, iv 107
 yucatanense, Tagassu angulatum,
 iv 385
 yucatanensis, Dicotyles angula-
 tus, iv 385
 yucatanensis, Cervus, iv 167
 zambesiensis, Equus quagga, v 26
 " Strepsiceros strep-
 sicerus, iii 198
 zanzibaricus, Cephalophus, ii 160
 Zebra, v 35
 " Burchell's, v 22
 " Cuninghame's, v 28
 " Foa's, v 33
 " Grévy's, v 18
 " Masai, v 31
 " Mountain, v 34
 " Ward's, v 32
 zebra, Antilope, ii 89
 " Equus (Hippotigris), v 34
 " " zebra, v 35
 zebrata, Antilope, ii 89
 zebroides, Equus, v 21
 zelotes, Procavia mackinderi, v 67
 zenkeri, Procavia adametzi, v 79
 Zeren, iii 35
 zetta, Mazama, iv 204
 zeylanicus, Cervus (Rusa) axis,
 iv 53
 " Elephas maximus, v 83
 zeylonensis, Sus, iv 318
 Zubr, i 35
 zuluensis, Neotragus livingstoni-
 anus, ii 164
 Zwaart Rhinaster, v 54
 " Wit Pens, iii 142

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